

AFSC 2A0X1B AVIONIC TEST STATION AND AIRCRAFT COMPONENT SPECIALTY



CAREER FIELD EDUCATION AND TRAINING PLAN

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 AND AIRCRAFT COMPONENT SPECIALTY
 AFSC 2A0X1B

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AVIONIC TEST STATION
AND AIRCRAFT COMPONENT SPECIALTY
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Part I

Preface

1. This career field education and training plan (CFETP) is a comprehensive education and training document that identifies life-cycle education/training requirements, training support resources, and minimum core task requirements for this specialty. The CFETP will provide personnel a clear career path to success and instill rigor in all aspects of career field training. To read, review, or print a copy of current CFETP, go to <http://www.e-publishing.af.mil>. **NOTE:** Civilians occupying associated positions will use Part II to support duty position qualification training.

2. The CFETP consists of two parts; supervisors use both parts of the plan to plan, manage, and control training within the career field.
 - 2.1. Part I provides information necessary for overall management of the specialty. Section A explains how everyone will use the plan. Section B identifies career field progression information, duties and responsibilities, training strategies, and career field path. Section C associates each level with specialty qualifications (knowledge, education, training, experience, and other). Section D indicates resource constraints. Some examples are funds, manpower, equipment, facilities. Section E identifies transition training guide requirements to support career field restructures.
 - 2.2. Part II includes the following: Section A identifies the specialty training standard (STS) and includes duties, tasks, and technical references to support training; Air Education and Training Command (AETC) conducted training; wartime course requirements; core tasks; and correspondence course requirements. Section B contains the course objective list and training standards supervisors use to determine if airmen satisfied training requirements. Section C identifies available support materials. An example is a qualification training package (QTP) developed to support proficiency training. These QTPs are identified in <http://www.e-publishing.af.mil>. Section D identifies a training course index supervisors use to determine resources available to support training; included here are both mandatory and optional courses. Section E identifies MAJCOM unique training requirements supervisors use to determine additional training requirements unique to the MAJCOM.

3. Using guidance provided in the CFETP will ensure individuals in this specialty receive effective and efficient training at the appropriate point in their career. This plan will enable us to train today's work force for tomorrow's jobs. At unit level, supervisors and trainers will use Part II to identify, plan, and conduct training commensurate with the overall goals of this plan.

ABBREVIATIONS/TERMS EXPLAINED

Advanced Training (AT). Formal course, which provides individuals who are qualified in one or more positions of their Air Force specialty (AFS) with additional skills/knowledge to enhance their expertise in the career field. Training is for selected career airmen at the advanced level of the AFS.

Air Force Job Qualification Standard (AFJQS). A comprehensive task list, which describes a particular job type or duty position. Supervisors use AFJQSs to document task qualifications. The tasks on AFJQS are common to all persons serving in the described duty position.

Career Field Education and Training Plan (CFETP). A CFETP is a comprehensive, multipurpose document covering the entire spectrum of education and training for a career field. It outlines a logical growth plan that includes training resources and is designed to make career field training identifiable, to eliminate duplication, and to ensure this training is budget defensible.

Certification. A formal indication of an individual's ability to perform a task to required standards.

Certification Official. A person the supervisor assigns to determine an individual's ability to perform a task to required standards.

Continuation Training. Additional training exceeding requirements with emphasis on present or future duty assignments.

Core Task. A task Air Force Career Field Managers (AFCFM) identify as a minimum qualification requirement within an Air Force Specialty regardless of duty position. Core task identified with an *R are optional for AFRC and ANG.

Course Objective List (COL). A publication identifying the tasks and knowledge requirements, and respective standards provided to achieve a 3-, 5-, and 7-skill level in this career field specialty. Supervisors use the COL to assist in conducting graduate evaluations in accordance with AFI 36-2201, *Air Force Training Programs*.

Critical Tasks. Tasks that have been identified by the workcenter supervisor as having a detrimental effect on mission accomplishment if not performed correctly. Critical tasks may or may not be the same as core tasks but are mandatory if identified as "critical" to the individual's position by the supervisor or workcenter.

Distance Learning. Includes video teleseminar (VTS), video teletraining (VTT), and computer-based training (CBT). Formal courses that a training wing or a contractor develops for export to a field location (in place of resident training) for trainees to complete without the on-site support of the formal school instructor. For instance, courses are offered by Air Force Institute of Technology, Air University, and Training Detachment.

Enlisted Specialty Training (EST). A mix of formal training (technical school) and informal training (on-the-job) to qualify and upgrade airmen in each skill level of a specialty.

En Route (PCS-Associated) Training. The training of students undergoing a permanent change of station (PCS) while in temporary duty (TDY) status.

Exportable Training. Additional training via computer assisted, paper text, interactive video, or other necessary means to supplement training.

Field Technical Training (Type 4). Special or regular on-site training conducted by a training detachment (TD) or by a mobile training team (MTT).

Go/No Go, The stage at which an individual has gained enough skill, knowledge, and experience to perform the tasks without supervision. Meeting the task standard.

Initial Skills Training. A formal resident course, which results in award of a 3-skill level Air Force specialty code (AFSC).

Instructional System Development (ISD). A deliberate and orderly process for developing, validating, and reviewing instructional programs that ensures personnel are taught the knowledge and skills essential for successful job performance.

Master Task Listing (MTL). Document maintained within the workcenter that identifies all tasks performed in a workcenter. This includes core, critical, position qualification, and wartime tasks. This document can be automated.

Master Training Plan. A comprehensive training plan for a workcenter. It can include the MTLs, QTPs, AFJQS, CFETP, task breakdowns, commercial publications and any other document that supports training.

Mobile Training Team (MTT). Instructors, trainers, training aids, and operational equipment that formal schools send to bases or operating locations.

Mission Ready Technician. A formal course which results in an airman receiving hands-on training and task certification of selected tasks so the individual will be immediately productive upon arrival at their first duty section.

Occupational Survey Report (OSR). A detailed report showing the results of an occupational survey of tasks performed within a particular AFS.

On-the-Job Training (OJT). Hands-on, over-the-shoulder training at the duty location used to certify personnel for both skill level upgrade and duty position qualification.

Qualification Training (QT). Actual hands-on task performance training designed to qualify an airman in a specific duty position. This training occurs both during and after the upgrade

training process. It's designed to provide the performance skill/knowledge training required to do the job.

Qualification Training Package (QTP). An instructional package designed for use at the unit to qualify, or aid qualification, in a duty position or program, or on a piece of equipment. It may be printed, computer-based, or in other audiovisual media.

Resource Constraints. Resource deficiencies, such as money, facilities, time, manpower, and equipment that preclude desired training from being accomplished.

Specialized Training Package and COMSEC Qualification Training Package. A composite of lesson plans, test material, instructions, policy, doctrine, and procedures necessary to conduct training. These packages are prepared by AETC, approved by National Security Agency (NSA), and administered by qualified communications security (COMSEC) maintenance personnel.

Specialty Training Standard (STS). An Air Force publication that describes an Air Force specialty in terms of tasks and knowledge an airman may be expected to perform or to know on the job. It serves as a contract between the AETC and the functional user to show which of the overall training requirements for an Air Force specialty code are taught in formal schools, career development courses, and exportable courses.

Supplemental Training. Training for a portion of an AFS without a change in AFSC. Formal training on new equipment, methods, and technology that are not suited for on-the-job training.

Training Detachment (TD). An AETC detachment that provides maintenance-oriented technical training, at an operational location, on specific systems and their aerospace ground equipment. A TD aims to qualify personnel on new equipment or in new techniques and procedures, maintain proficiency and to increase skill and knowledge, acquaint personnel with specific systems, and keep personnel aware of changing concepts and requirements.

Upgrade Training (UGT). A mixture of mandatory courses, task qualification, QTPs, and CDCs required for award of the 3-, 5-, 7-, or 9-skill levels.

Utilization and Training Workshop (U&TW). A forum of MAJCOM functional managers (MFM), subject matter experts (SME), and AETC training personnel that determines career ladder training requirements.

SECTION A - GENERAL INFORMATION

1. Purpose. This CFETP provides the information necessary for AFCFM, MFMs, commanders, training managers, supervisors, and trainers to plan, develop, manage, and conduct an effective career field training program. This plan outlines the training that individuals in AFSC 2A0X1B should receive to develop and progress throughout their career. This CFETP identifies initial skills, upgrade, qualification, advanced, and proficiency training. Initial skills training is the AFS specific training an individual receives upon entry into the Air Force or upon retraining into this specialty for award of the 3-skill level. This training is conducted by AETC at Sheppard AFB TX. Upgrade training identifies the mandatory courses, task qualification requirements, and correspondence course completion requirements for award of the 3-, 5-, 7-, and 9-skill levels. Qualification training is actual hands-on task performance training designed to qualify an airman in a specific duty position. This training program occurs both during and after the upgrade training process. It's designed to provide the performance skills/knowledge required to do the job. Advanced training is formal specialty training used for selected airmen. Proficiency training is additional training, either in-residence or exportable advanced training courses, or on-the-job training, provided to personnel to increase their skills and knowledge beyond the minimum required for upgrade. The CFETP has several purposes, some are:

1.1. Serve as a management tool to plan, manage, conduct, and evaluate a career field training program. Also, it's used to help supervisors identify training at the appropriate point in an individual's career.

1.2. Identify tasks and knowledge training requirements for each skill level in the specialty and recommend education/training throughout each phase of an individual's career.

1.3. List training courses available in the specialty and identifies sources of training and the training delivery method.

1.4. Identify major resource constraints that impact full implementation of the desired career field training process.

2. Uses. This plan will be used by MFMs and supervisors at all levels to ensure comprehensive and cohesive training programs are available for each individual in the specialty.

2.1. AETC training personnel will develop/revise formal resident, non-resident, TD, and exportable training based upon requirements established by the users and documented in Part II of the CFETP. They will also work with the AFCFM to develop acquisition strategies for obtaining the resources needed to provide the identified training.

2.2. MFMs ensure their training programs complement the CFETP mandatory initial, upgrade, and proficiency requirements. Identified requirements can be satisfied by OJT, resident training, contract training, or exportable courses. MAJCOM developed training, to support this AFSC, must be identified for inclusion in this plan and must not duplicate other available training resources.

2.3. Each individual will complete the mandatory training requirements specified in this plan. The list of courses in Part II will be used as a reference to support training.

3. Coordination and Approval. The AFCFM is the approving authority. The using MAJCOM representatives and AETC training personnel will identify and coordinate on the career field training requirements. The AETC training manager for AFSC 2A0X1B will initiate an annual

review of this document by AETC and MAJCOM AFSC functional managers to ensure currency and accuracy. Using the list of courses in Part II, they will eliminate duplicate training.

SECTION B - CAREER FIELD PROGRESSION AND INFORMATION

4. Specialty Description.

4.1. Specialty Summary. Performs and manages avionics test station functions and activities. Operates, inspects, maintains, programs, and calibrates computer and manually operated avionics test equipment, support equipment (SE), and aircraft avionics systems components. Related DoD Occupational Subgroup: 198.

4.2. Duties and Responsibilities:

Analyzes performance and isolates malfunctions of avionics test equipment, SE, and aircraft components. Performs operational tests on test equipment, SE, and aircraft components to determine condition, analyze performance, and isolate malfunctions in the radar, communications, weapons control, electronic warfare, and flight control systems. Traces logic, schematic, test flow, and wiring diagrams. Uses self-test and software functions, computer and manually operated avionics test equipment, SE, and test measurement and diagnostic equipment (TMDE) to determine the scope of repair and adjustment required.

Inspects, maintains, programs, and calibrates avionics equipment, SE, and aircraft components. Removes and replaces assembly components using hand tools, soldering devices, and electronic instruments. Repairs wiring harnesses and interconnecting cables. Services, replaces, and cleans filtration and cooling components, and performs maintenance on test stations and avionics SE. Repairs oscillator, amplifier, waveshaping, and logic circuits; microwave equipment; servomechanisms; radio frequency circuits; video displays; and power supply circuits. Loads computer programs. Aligns, calibrates, and modifies avionics test equipment, SE, and aircraft components.

Manages integrated avionics activities and complies with directives, policies, and procedures. Complies with maintenance standards. Initiates deficiency reports, maintenance analysis documents, technical data changes, and equipment records. Interprets, establishes, and complies with training, security, and safety standards. Ensures compliance with directives governing handling, use, and disposal of hazardous waste and material. Records information on data collection forms and automated systems. Directs and controls maintenance, calibration, and inspection of integrated avionics test stations and aircraft components.

Plans and organizes integrated avionics activities. Plans and organizes integrated avionics equipment assembly, calibration, repair, modification, and maintenance activities. Plans physical layout of facilities, and ensures SE and spare parts availability.

5. Skill and Career Progression. Adequate training and timely progression from the apprentice to the superintendent skill level play an important role in the Air Force's ability to accomplish its mission. It's essential that everyone involved in training do his/her part to plan, develop, manage, and conduct an effective training program. The guidance provided in this part of the CFETP will ensure each individual receives necessary training at appropriate points in their career. Enlisted personnel must complete all mandatory training requirements as outlined in AFI 36-2201, *Air Force Training Programs*; AFMAN 36-2108, *Enlisted Classification*; and this CFETP for award of the 3-,5-,7-, and 9-skill levels. The following outlines the minimum requirements for award of these skill levels:

5.1. Apprentice (3-level): Complete a resident initial skills training course for award of the 3-skill level. Retraining into a similar AFSC or shred may be accomplished via OJT alone only when specified in the retraining instructions as approved by the respective AFCFM. Personnel retraining via OJT may be awarded 3-skill level when the following are met: complete knowledge training on all tasks taught in the initial skills course, complete duty position requirements identified by the supervisor and all other mandatory requirements.

5.2. Journeyman (5-level): Complete mandatory CDC, if available, all core tasks identified in the CFETP and other duty position tasks identified by the supervisor. They must also complete 15 months in upgrade training (UGT). Individuals in retraining status (TSC 'F') must complete a minimum of 9 months in upgrade training.

5.3. Craftsman (7-level): Be a staff sergeant, complete the mandatory CDCs, if available, all core tasks identified in the in the CFETP and other duty position tasks identified by the supervisor. They must also attend the 7-skill level craftsman course (if available) and for award of the 7-skill level individuals must complete a minimum of 12 months in UGT. Individuals in retraining status (TSC 'G') must complete a minimum of 6 months in upgrade training.

5.4. Superintendent (9-level): Be a senior master sergeant.

6. Training Decisions: The CFETP uses a building-block approach (simple to complex) to encompass the entire spectrum of training requirements for the Avionics Test Station and Aircraft Component career field specialty. The spectrum includes a strategy for when, where, and how to meet these training requirements. The strategy must ensure we develop affordable training, eliminate duplication, and prevent a fragmented approach to training. The following training decisions were made by MFMs and SMEs at the career field specialty U&TW held at Sheppard AFB, 8-11 Mar 05.

6.1. Initial Skills: Three-Level Course Review/Upgrade Training: The working group decided to merge the existing resident courses, J3ATR2A011 002 (Fundamentals), J3ABR2A031B 007 (F-16/A-10/F-117 Apprentice), and J3ABR2A031B 006 (B-1/B-2/C-17 Apprentice). The new course, J3ABR2A031B048B, is expected to be on line June 2006.

6.2. Five Level Upgrade Training: The STS was revised to provide additional training and identify core tasks for upgrade to the 5-level. The 5-level CDCs were revised and consolidated. 2A051 three-volume set was not changed. The 2A051B six-volume set was updated and subject matter was added or deleted as required. Volume 1 and 2 were consolidated into a single Volume 1. Volumes 3, 4, 5, and 6 had minor revisions and became Volumes 2, 3, 4, and 5 respectively. Volume 6 contains Communication/Navigation and Guidance & Control system information incorporated as a result of the career field restructure.

6.3. Seven Level Upgrade Training: Course length and training emphasis remained unchanged, i.e., advanced knowledge of ATLAS and troubleshooting centered. 7-level CDCs: because the AFS utilizes CDC 2AX7X, no items were deleted. Also, no items were identified for possible addition to CDC 2AX7X.

6.4. Continuation Training. The purpose of the continuation training program is to provide additional training exceeding minimum upgrade training requirements with emphasis on present and future duty positions. MAJCOMs develop a continuation training program that ensures individuals in the Avionics Test Station and Aircraft Component career field specialty receive necessary training at the appropriate point in their career. The training program identifies both mandatory and optional training requirements.

7. Community College of the Air Force (CCAF) Academic. Enrollment in CCAF occurs upon completion of basic military training. CCAF provides the opportunity to obtain an Associate in Applied Sciences Degree. In addition, CCAF offers the following:

7.1. Occupational Instructor Certification. Upon completion of instructor qualification training, consisting of the Basic Instructor Course (BIC) and supervised practice teaching, CCAF instructors who possess an associates degree or higher may be nominated by their school commander/commandant for certification as an occupational instructor.

7.2. Degree Requirements: All airmen are automatically entered into the CCAF program to receive an Associates in Applied Technology Degree in Avionic Systems Technology. Prior to completing an associate degree, the 5-level must be awarded and the following requirements must be met:

	<u>Semester Hours</u>
Technical Core	12-24
Leadership, Management, and Military Studies	6
Physical Education.....	4
General Education.....	15
Program Elective.....	15
Technical Education; Leadership, Management, and Military Studies; or General Education	
Total	64

7.2.1. Technical Core (24 Semester Hours): Completion of course J3ABR2A031B-006 or J3ABR2A031B-007 satisfies all 24 semester hours of the technical education requirement.

Technical Core
Subjects/Courses

	<u>Semester Hours</u>
Avionic Systems Theory/Maintenance	24
CCAF Internship.....	16
Advanced Electronics	12
Algebra-Based Physics	4
Aviation/Flight Safety.....	3
Basic Electronics Theory/Application.....	12
CAD/CAM or Technical Drawing/Drafting	3
Communications Systems Theory/Maintenance.....	12
Computer Science	6
Digital Techniques	6
Electronic Systems Theory/Maintenance.....	12
Enlisted Professional Military Education	6
FCC General Radiotelephone Operator's License	9
Industrial Safety.....	3

Technical Electives
Subjects/Courses

Semester Hours

Microprocessor Electronic Theory.....	6
Quality Assurance	3
Radar Systems Theory/Maintenance	3
Soldering Techniques.....	3
Solid-State Theory/Application	6
Technical Writing	3
Trigonometry	3

7.2.2. Leadership, Management, and Military Studies (LMMS) (6 Semester Hours):

Professional military education and/or civilian management courses accepted in transfer and/or by testing credit.

7.2.3. Physical Education (4 Semester Hours):

Semester Hours

PHE 1000 - <i>Basic Military Training</i>	4
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7.2.4. General Education (15 Semester Hours): Courses must meet the definition of General Education subjects/courses as provided in the CCAF General Catalog.

Subjects/Courses

Semester Hours

Oral Communication (Speech)	3
Written Communication (English Composition)	3
Mathematics.....	3
Intermediate algebra or college-level mathematics course that satisfies the delivering institution's mathematics requirement for graduation. If an acceptable mathematics course is applied as a Technical or Program Elective, a natural science course may be substituted for mathematics.	
Social Science	3
Anthropology, Archaeology, Economics, Geography, Government, History, Political Science, Psychology, Sociology	
Humanities	3
Fine Arts (Criticism, Appreciation, Historical Significance), Foreign Language, Literature, Philosophy, Religion	

7.2.5. Program Elective (15 semester hours): Courses applying to technical education, LMMS or general education requirements; natural science courses meeting general education requirement application criteria; foreign language credit earned at Defense Language Institute or through Defense Language Proficiency Test; maximum 6 SHs of CCAF degree-applicable technical course credit otherwise not applicable to program of enrollment. See the CCAF General Catalog http://www.au.af.mil/au/ccaf/catalog/2002cat/ter_4vhs.htm for details regarding the Associates of Applied Science for this specialty.

7.3. AETC Instructor Requirements. Additional off-duty education is a personal choice that is encouraged for all. Individuals desiring to become an Air Education and Training Command Instructor should be actively pursuing an associate's degree. It's necessary for instructors to have at least an associate's degree so the Technical School can maintain accreditation through the Southern Association of Colleges and Schools.

8. Career Field Path.

8.1. Enlisted Career Path. Table 8.1 identifies career milestones for the 2A0X1B Air Force specialty.

Table 8.1 Enlisted Career Path				
Education and Training Requirements	Grade Requirements			
	Rank	Average Sew-On	Earliest Sew-On	High Year Of Tenure (HYT)
Basic Military Training School				
Apprentice Technical School (3-Skill Level)	Amn A1C	6 months 16 months		
Upgrade To Journeyman (5-Skill Level) - Minimum 15 months on-the-job training. - Complete all 5-level core tasks on one MDS and all duty position-related tasks identified by supervisor. - Complete appropriate CDC if/when available.	Amn A1C SrA	6 months 16 months 3 years	28 months	12 Years
Airman Leadership School (ALS) - Must be a SrA with 48 months time in service or be a SSgt Selectee and have 1 year of retainability. - Resident graduation is a prerequisite for SSgt sew-on (Active Duty Only).				
Trainer - Recommended by supervisor. - Qualified and certified to perform the task to be trained. - Attend the Air Force Training Course.				Certifier - At least a SSgt with a 5-skill level or civilian equivalent. - Someone other than the trainer. - Qualified and certified to perform the task being certified. - Attend the Air Force Training Course.
Upgrade To Craftsman (7-Skill Level) - Minimum rank of SSgt. - Complete all 5- and 7-level core tasks on one MDS and all duty position-related tasks identified by supervisor. - 12 months OJT. - Complete appropriate CDC if/when available. - Complete advanced technical school.	SSgt	6.1 years	3 years	20 Years
Noncommissioned Officer Academy (NCOA) - Must be a TSgt or TSgt Selectee. - Resident graduation is a prerequisite for MSgt sew-on (Active Duty Only).	TSgt MSgt	14.1 years 18.4 years	5 years 8 years	24 Years 26 Years
USAF Senior NCO Academy (SNCOA) - Must be a SMSgt or SMSgt Selectee. - A percentage of top nonselect (for promotion to E-8) MSgts attend the SNCOA each year. - Resident graduation is a prerequisite for CMSGT sew-on (Active Duty Only).	SMSgt	21 years	11 years	28 Years
Upgrade To Superintendent (9-Skill Level) - Minimum rank of SMSgt.	CMSG T	23.3 years	14 years	30 Years

8.2. Base/Unit Education and Training Manager Checklist: Table 8.2. provides base and unit education and training managers a tool to track progress of individuals in the 2A0X1B Air Force specialty.

Table 8.2. Base/Unit Education and Training Manager Checklist		
Requirements for Upgrade to:	Y	N
<p>Journeyman</p> <ul style="list-style-type: none"> - Has the apprentice completed mandatory CDCs (if available)? - Has the apprentice completed all 5-level core tasks on at least one MDS aircraft identified in the CFETP? - Has the apprentice completed all other duty position tasks identified by the supervisor? - Has the apprentice completed 15 months training (9 months for retrainees) for award of the 5-skill level? - Has the apprentice met mandatory requirements listed in specialty description, AFMAN 36-2108 (Enlisted Classification), and CFETP? - Has the apprentice been recommended by their supervisor? 		
<p>Craftsman</p> <ul style="list-style-type: none"> - Has the journeyman achieved the rank of SSgt? - Has the journeyman completed mandatory CDCs (if available)? - Has the journeyman completed all 5- and 7-level core tasks on at least one MDS aircraft identified in the CFETP? - Has the journeyman completed all other duty position tasks identified by the supervisor? - Has the journeyman attended 7-skill level Craftsman Course (if available)? First, they must complete: <ul style="list-style-type: none"> -- All 7-level training requirements listed in the CFETP. -- All applicable mandatory CDCs and /or exportable courses. - Has the journeyman completed a minimum of 12 months UGT (6 months for retrainees) for award of the 7-skill level? 		

TO: Squadron/CC
 FROM: Squadron Training Manager
 SUBJECT: Upgrade Trainee

Trainee is prepared to be upgraded and has completed all mandatory training requirements.
 Supervisor recommends upgrade.

Training Manager

Supervisor

SECTION C - SKILL LEVEL TRAINING REQUIREMENTS

9. Purpose. Skill level training requirements in this career field specialty are defined in terms of tasks and knowledge requirements. This section outlines the specialty qualification requirements for each skill level in general terms and establishes the mandatory requirements for entry, award, and retention of each skill level. The specific task and knowledge training requirements are identified in the STS in Part II, Sections A and B of this CFETP.

10. Specialty Qualification Requirements. The various skill levels in this career field are defined in terms of tasks and knowledge proficiency requirements for each skill level. They are stated in broad general terms and establish the standards of performance. The specific task and knowledge training requirements are identified in the STS in Part II, Section A of the CFETP. Unit work centers must develop a structured training program to ensure the following requirements are met.

10.1. Apprentice-Level Training.

10.1.1. Specialty Qualification: To perform duties at the apprentice level, an individual must be able to understand basic system theory of operation and be able to perform certain on-equipment and off-equipment items identified in Part II.

10.1.1.1. Knowledge: Knowledge is mandatory of: electrical theory and electronic fundamentals, including solid-state, binary, digital, octal, and hexadecimal numbering systems; metrology principles; Boolean algebra; computer logic, and programming principles and language; printed circuitry; microwave principles, radar principles, and electronic warfare principles; micro-miniature solid state devices; operating principles of avionics components supported by test stations; electrically actuated mechanical device theory; operating principles of basic measuring and testing devices; interpreting schematic, logic, data flow, and wiring diagrams; interpreting programming tables and technical publications; using, caring for, and applying special, standard, and common hand tools; interpreting testing, measuring, and referencing devices; concepts and application of applicable maintenance directives; Air Force supply procedures; and use and disposal of hazardous waste and material.

10.1.1.2. Education: Completion of high school is desirable with courses in physics, algebra, trigonometry, and computer principles.

10.1.1.3. Training: For award of AFSC 2A031X, completion of the applicable suffix basic avionics test station and components course is mandatory.

10.1.1.4. Experience: The following experience is mandatory for award of the AFSC indicated:

2A051B. Qualification in and possession of AFSC 2A031B. Also, experience in functions such as identifying performance and isolating malfunctions encountered with avionic components; using and repairing avionic electrical, electronic, and mechanical equipment; or aligning and calibrating avionic test stations and SE.

2A071B. Qualification in and possession of AFSC 2A051B. Also, experience performing or supervising functions such as installing, inspecting, repairing, or overhauling avionic test stations and SE.

10.1.1.5. Other: The following are mandatory as indicated:

10.1.1.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.

10.1.1.5.2. See AFMAN 36-2108, attachment 39 for additional entry requirements.

10.1.1.5.3. For award and retention of AFSCs 2A031B/51B/71B or 2A000, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Program Management*.

10.1.2. Training Sources. The initial skills course J3ABR2A031B 006/007, will provide the required knowledge and qualifications. Initial skills training encompasses electronic principles, test station theory and operation, component repair, component removal and installation. It also includes introduction to maintenance concepts and troubleshooting, general shop maintenance practices, use of technical publications, maintenance documentation with CAMS or Integrated Maintenance Data System (IMDS), and support equipment familiarization and use.

10.1.3. Implementation. Upon graduation from Basic Military Training, airmen will attend course E3AQR2A031B-451/452, Electronic Principles, at Keesler AFB, MS, then proceed to Sheppard AFB, TX, to complete the J3ABR2A031B048B Aircraft Avionics Test Station and Aircraft Component Apprentice Training. Course completion will result in award of the 3-skill level.

10.2. Journeyman-Level Training:

10.2.1. Specialty Qualification: In addition to the 3-level qualifications:

10.2.1.1. Knowledge: An individual must possess knowledge and skills necessary to analyze performance and isolate basic malfunctions of avionics test stations, SE, and aircraft components. They must also be able to perform self-test, calibration, and operational checks on avionics test stations, SE, and aircraft system components; use and care for test and support equipment; and modify and reprogram avionics test stations, SE, and aircraft systems components. They must also know how to handle, store, and dispose of hazardous waste and materials according to environmental standards.

10.2.1.2. Education: There is no formal education for upgrade to 2A051B.

10.2.1.3. Training: Requirements for the Journeyman level require completion of the 5-level CDC and completion of all applicable 5-level core tasks on at least one MDS aircraft specified in the STS.

10.2.1.4. Experience: Qualification in and possession of AFSC 2A031B. Also, experience in functions such as identifying and isolating malfunctions encountered with avionics components; using and repairing avionics electrical, electronic, and mechanical equipment; or aligning and calibrating avionics test stations and SE.

10.2.1.5. Other: The following are mandatory as indicated:

10.2.1.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.

10.2.1.5.2. For award and retention of AFSC 2A031X/51X/71X or 2A000, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

10.2.2. Training Sources. The Five level CDC provides the career knowledge training required. Qualification training and OJT will provide training and qualification on the core tasks identified in the STS. The CDC is written to build from the trainee's current knowledge base, and provide more in-depth knowledge to support OJT requirements

10.2.3. Implementation. Training to the 5-level is performed by the units utilizing STS, exportable courses, and CDCs. Upgrade to the 5-level requires completion of the 2A051 and 2A051B CDCs, completion of all 5-level core tasks on one MDS aircraft, and MAJCOM/Unit requirements.

10.3. Craftsman-Level Training:

10.3.1. Specialty Qualification: In addition to the 5-level qualifications:

10.3.1.1. Knowledge: An individual must possess advanced electronic skills and knowledge necessary to analyze performance and isolate complex malfunctions of avionics test stations, SE, and aircraft system components. The 7-level must be able to supervise, train, and utilize resources to ensure effective planning, scheduling, and maintenance. The 7-levels must be qualified on advanced repair and inspection techniques; modification and certification of avionics test stations, SE, and aircraft system components; repair requirements, shop procedures and evaluations; and historical documentation analysis.

10.3.1.2. Education: There are no additional education requirements beyond those defined for the apprentice level.

10.3.1.3. Training: Completion of CDC 2AX7X and the resident 7-level course, J3ACR2A071 048A, at Sheppard AFB TX are mandatory for upgrade to AFSC 2A071B.

10.3.1.4. Experience: Completion of all applicable 5 and 7-level core tasks on at least one MDS aircraft as identified in the STS, and qualification in and possession of AFSC 2A051B. Also, experience performing or supervising functions such as installing, inspecting, repairing, or overhauling avionics test stations and SE.

10.3.1.5. Other: The following are mandatory as indicated:

10.3.1.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.

10.3.1.5.2. For award and retention of AFSC 2A031X/51X/71X or 2A000, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

10.3.2. Training Sources. Seven level upgrade training will be conducted by certified trainers using applicable core tasks, unit/MAJCOM specific courses, applicable 7-level CDC, and the formal 7-level resident course J3ACR2A071B-001. The resident courses and/or 7-level CDC s are written to provide advanced troubleshooting skills.

10.3.3. Implementation. Upgrade to the 7-level will require completion of all applicable 5 and 7-level core tasks on one MDS aircraft, applicable 7-level CDCs, craftsman's maintenance course J3ACR2A071 048A, 12 months OJT after selection to SSgt, and all mandatory exportable courses.

10.4. Superintendent-Level Training:

10.4.1. Specialty Qualification. In addition to 7-level qualifications:

10.4.1.1. Knowledge: An individual must possess advanced skills and knowledge of concepts and principles in the management of aircraft maintenance. The 9-level needs to be an effective leader; must be able to forecast, budget and manage funds and other resources; and must be knowledgeable of all environmental standards and ensure adherence to the proper handling and disposal of hazardous materials.

10.4.1.2. Education: There are no additional requirements beyond those defined for the apprentice level.

10.4.1.3. Training: For award of AFSC 2A090, completion of applicable PME courses and promotion to SMSgt is mandatory.

10.4.1.4. Experience: Qualification in and possession of AFSC 2A071B. Also, experience managing avionics test station and components functions or activities.

10.4.1.5. Other: The following are mandatory as indicated:

10.4.1.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.

10.4.1.5.2. For award and retention of AFSC 2A031X/51X/71X or 2A000, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

10.4.2. Training Sources. The senior NCO Academy and unit OJT will be used for training.

10.4.3. Implementation. The 9-level will be awarded upon promotion to SMSgt. Individuals must attend the Senior NCO Academy prior to assuming the rank of CMSGT. ANG and AFRC personnel can use correspondence course.

SECTION D - RESOURCE CONSTRAINTS

11. Purpose. This section of the CFETP identifies known resource constraints, which preclude optimum/desired training from being developed or conducted. Included is a narrative explanation of each resource constraint, an impact statement describing the effect on training, the resources needed, and actions required to satisfy the training requirements.

12. Apprentice Level Training Constraints: There are no 3-level constraints

13. Five Level Training Constraints: There are no 5-level constraints.

14. Seven-Level Training Constraints: There are no 7-level constraints.

PART II

SECTION A - SPECIALTY TRAINING STANDARD

1. Implementation. This STS will be used for technical training provided by Air Education and Training Command (AETC) for classes beginning on and after 5 Jun 06.

2. Purpose. As prescribed in AFI 36-2201, this STS:

2.1. Lists in the column 1 (Task, Knowledge, and Technical Reference) the most common tasks, knowledge, and technical references (TR) necessary for airmen to perform duties in the 3-, 5-, and 7-skill level. An asterisk (*) before the number indicates a wartime course objective.

2.2. Column 2 (Core Tasks) identifies, by asterisk (*), specialty-wide training requirements. Core tasks identified with an *R are optional for ANG and AFRC. As a minimum, certification on all core tasks applicable to at least one Mission Design Series (MDS) aircraft assigned must be completed for skill level upgrade. Core task exemptions: (1) core tasks which are not applicable to base assigned aircraft or equipment are not required for upgrade (units are not required to send personnel TDY for core task training); (2) units are not exempt from minimum core task training if aircraft/equipment are assigned to another unit on base, and (3) core tasks on more than one assigned MDS are not required unless deemed mandatory by the MAJCOM Functional Managers, commanders, and/or supervisor. MAJCOM Functional Managers, commanders, and supervisors may designate additional core tasks as necessary. When designated, certify these core tasks using normal core task certification procedures.

2.3. Provides certification for OJT. Column 3 is used to record completion of tasks and knowledge training requirements. Use automated training management systems to document technician qualifications, if available. Task certification must show a certification completed date.

2.4. Shows formal training and correspondence course requirements. Column 4 shows the proficiency to be demonstrated on the job by the graduate as result of training on the task/knowledge and the career knowledge provided by the correspondence course. When two codes are used in columns 4A and 4C(1) (e.g. 2b/b), the first code is the established requirement for resident training on the task/knowledge, and the second code indicates the level of training provided in the course due to equipment shortages or other resource constraints. See CADRE/AFSC/CDC listing maintained by the unit training manager for current CDC listing.

2.5. Qualitative Requirements. Attachment 1 contains the proficiency code key used to indicate the level of training and knowledge provided by resident training and career development courses.

2.6. Job Qualification Standard. Becomes a job qualification standard (JQS) for on-the-job training when placed in AF Form 623, **Individual Training Record**, and used according to AFI 36-2201. For OJT, the tasks in column 1 are trained and qualified to the go/no go level. "Go" means the individual can perform the task without assistance and meets local requirements for accuracy, timeliness, and correct procedures. When used as a JQS, the following requirements apply:

2.6.1. Documentation. Reference AFI 36-2201V3.

2.6.2. Converting from Old Document to CFETP. Reference AFI 36-2201V3.

2.6.3. Documenting Career Knowledge. Reference AFI 36-2201V3.

2.6.4. Decertification and Recertification. Reference AFI 36-2201V3.

2.6.5. AF Form 797. Reference AFI 36-2201V3.

2.6.6. Disposition of Training Records. Upon separation, retirement, commissioning, or promotion to Master Sergeant (unless otherwise directed by the AFCFM, MAJCOM, unit commander, or supervisor), give the individual their training records. Also, give individuals outdated training records after transcribing records. Do not remove any training records that show past qualifications unless transcribed to a new CFETP/AFJQS. For example, an individual working in a tool crib must maintain documented career field qualifications in case they return to duty on the flightline or in the shop. Supervisors must exercise good judgment when removing training records not needed in current duty positions.

2.7. Specialty Training Standard. Is a guide for development of promotion tests used in the Weighted Airman Promotion System (WAPS). Specialty Knowledge Tests (SKTs) are developed at the USAF Occupational Measurement Squadron by senior NCOs with extensive practical experience in their career fields. The tests sample knowledge of STS subject matter areas judged by test development team members as most appropriate for promotion to higher grades. Questions are based upon study references listed in the WAPS catalog. Individual responsibilities are in chapter 14 of AFI 36-2606, *US Air Force Reenlistment, Retention, and NCO Status Programs*. WAPS is not applicable to the Air National Guard or Air Force Reserve.

3. Recommendations. Report unsatisfactory performance of individual course graduates to the AETC Training Manager at 365 TRS/TRR, 609 9th Avenue, Sheppard AFB TX 76311-2335, DSN 736-7899. Reference specific STS paragraphs. For a quick response to problems, call our Training Feedback Hotline, DSN 736-2574.

BY ORDER OF THE SECRETARY OF THE AIR FORCE

OFFICIAL

DONALD J. WETEKAM, Lieutenant General, USAF
DCS/Installations and Logistics

Attachments (14)

1. Proficiency Code Key (Mandatory in records with CFETP Part I and Part II, Section A)
2. Common Training Requirements (Mandatory)
3. A-10 Training Requirements (Optional)
4. B-1 Training Requirements (Optional)
5. B-2 Training Requirements (Optional)
6. C-17 Training Requirements (Optional)
7. F-16 Training Requirements (Optional)
8. F-117 Training Requirements (Optional)
9. E3 & E8 Training Requirements (Optional)
10. C-130 and SAM Training Requirements (Optional)
11. C-135 and E-4 Training Requirements (Optional)
12. Electronic Principles Training Requirements (Mandatory)
13. 2AX7X Training Requirements (Mandatory)

Matrix

2A071 STS Course

NOTE: Use of at least one of attachments three through eleven is required.

PROFICIENCY CODE KEY

STS 2A0X1B

Name Of Trainee		
Printed Name (<i>Last, First, Middle Initial</i>)	Initials (Written)	SSAN
<i>Printed Name Of Training/Certifying Official And Written Initials</i>		
<i>NI</i>	<i>NI</i>	

QUALITATIVE REQUIREMENTS

Proficiency Code Key		
	Scale Value	Definition: The individual
Task Performance Levels	1	IS EXTREMELY LIMITED (Can do simple parts of the task. Needs to be told or shown how to do most of the task.)
	2	IS PARTIALLY PROFICIENT (Can do most parts of the task. Needs only help on hardest parts.)
	3	IS COMPETENT (Can do all parts of the task. Needs only a spot check of completed work.)
	4	IS HIGHLY PROFICIENT (Can do the complete task quickly and accurately. Can tell or show others how to do the task.)
*Task Knowledge Levels	a	KNOWS NOMENCLATURE (Can name parts, tools, and simple facts about the task.)
	b	KNOWS PROCEDURES (Can determine step by step procedures for doing the task.)
	c	KNOWS OPERATING PRINCIPLES (Can identify why and when the task must be done and why each step is needed.)
	d	KNOWS ADVANCED THEORY (Can predict, isolate, and resolve problems about the task.)
**Subject Knowledge Levels	A	KNOWS FACTS (Can identify basic facts and terms about the subject.)
	B	KNOWS PRINCIPLES (Can identify relationship of basic facts and state general principles about the subject.)
	C	KNOWS ANALYSIS (Can analyze facts and principles and draw conclusions about the subject.)
	D	KNOWS EVALUATION (Can evaluate conditions and make proper decisions about the subject.)
<p>Explanations</p> <p>* A task knowledge scale value may be used alone or with a task performance scale value to define a level of knowledge for a specific task. (Example: b and 1b)</p> <p>** A subject knowledge scale value is used alone to define a level of knowledge for a subject not directly related to any specific task, or for a subject common to several tasks.</p> <p>- This mark is used alone instead of a scale value to show that no proficiency training is provided in the courses or CDCs.</p> <p>/ This mark is used in course columns to show that training is required but not given/reduced due to limitations in resources (3c/b, 2b/b, 3c/-, etc.).</p> <p>Note: All course requirements are trained in the 3-level resident wartime course. The 7 level in-residence course is not taught in wartime.</p>		

COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
ATTACHMENT 2											
NOTE 1: All course requirements are trained in the 3-level resident wartime course. The 7-level in-residence course is not taught in wartime.											
NOTE 2: Users are responsible for annotating training references to identify current references pending STS revision											
NOTE 3: Items marked in columns 2a or 2b with a “*R” are optional core tasks for ANG and AFRC.											
NOTE 4: Address comments and recommended changes through the MAJCOM Functional Managers to the AETC Training Manager, DSN 736-7899.											
2. ATTACHMENT 2, COMMON TRAINING REQUIREMENTS											
2.1 CAREER LADDER STRUCTURE TR: AFMAN 36-2108; AFVA 39-1								-	-	-	-
2.2 SUPERVISION AND TRAINING											
2.2.1 Supervision											
2.2.1.1 Orient new personnel TR: AFMAN 36-2108; AFIs 36-2201, 36-2103								-	-	-	-
2.2.1.2 Obtain information for special requisitions TR: AFI 21-101								-	-	-	-
2.2.1.3 Statement of charges TR: DODR 7000-14V4 , DOD 7200.1								-	-	-	-
2.2.1.4 Report of survey TR: DODR 7000-14V4 , DOD 7200.1								-	-	-	-
2.2.1.5 Coordinate work with others TR: 21-101, and applicable command directives								-	-	-	-
2.2.1.6 Recommend/Establish: TR: AFI 21-101, and applicable Command directives											
2.2.1.6.1 Work methods								-	-	-	-
2.2.1.6.2 Controls								-	-	-	-
2.2.1.6.3 Performance standards								-	-	-	-
2.2.1.7 Plan: TR: AFI 21-101, and applicable command directives											
2.2.1.7.1 Work assignments								-	-	-	-
2.2.1.7.2 Work priorities								-	-	-	-

COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
2.2.1.8 Schedule: TR: AFI 21-101, and applicable command directives												
2.2.1.8.1 Work assignments								-	-	-	-	
2.2.1.8.2 Work priorities								-	-	-	-	
2.2.1.8.3 Other activities such as ancillary training, staff meetings, and leave time								-	-	-	-	
2.2.1.9 Assign: TR: AFI 21-101, and applicable command directives												
2.2.1.9.1 Maintenance repair work								-	-	-	-	
2.2.1.9.2 Personnel to positions								-	-	-	-	
2.2.1.10 Supervise repair personnel accomplishing: TR: AFI 21-101, and applicable command directives												
2.2.1.10.1 Maintenance								-	-	-	-	
2.2.1.10.2 Inspection								-	-	-	-	
2.2.1.11 Analyze maintenance and inspection reports and charts TR: AFI 21-101, and applicable command directives								-	-	-	-	
2.2.1.12 Prepare: TR: AFI 21-101, and applicable command directives												
2.2.1.12.1 Maintenance and inspection reports and charts								-	-	-	-	
2.2.1.12.2 Organizational and functional charts								-	-	-	-	
2.2.1.13 Justify: TR: AFI 21-101, and applicable command directives												
2.2.1.13.1 Personnel								-	-	-	-	
2.2.1.13.2 Equipment								-	-	-	-	

COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC	
2.2.1.14 Evaluate work performance of personnel: TR: AFI 36-2403												
2.2.1.14.1 Performing maintenance								-	-	-	-	
2.2.1.14.2 Performing inspections								-	-	-	-	
2.2.1.15 Perform self-assessments								-	-	-	-	
2.2.2 Training TR: AFI 36-2201												
2.2.2.1 Career Field Education and Training Plan (CFETP)								-	-	-	-	
2.2.2.2 Specialty Training Standard (STS)								-	-	-	-	
2.2.2.3 Occupational Survey Report (OSR)								-	-	-	-	
2.2.2.4 Utilization and Training Workshop (U&TW)								-	-	-	-	
2.2.2.5 Evaluate personnel to determine need for training								-	-	-	-	
2.2.2.6 Plan and supervise Enlisted Specialty Training (EST)												
2.2.2.6.1 Prepare job qualification standards								-	-	-	-	
2.2.2.6.2 Conduct training								-	-	-	-	
2.2.2.6.3 Counsel trainees on their progress								-	-	-	-	
2.2.2.6.4 Monitor effectiveness of training												
2.2.2.6.4.1 Career knowledge upgrade								-	-	-	-	
2.2.2.6.4.2 Job proficiency upgrade								-	-	-	-	
2.2.2.6.4.3 Qualification								-	-	-	-	
2.2.2.7 Maintain training records								-	-	-	-	
2.2.2.8 Evaluate effectiveness of training programs												
2.2.2.8.1 Resident Training								-	-	-	-	
2.2.2.8.2 On-The-Job Training								-	-	-	-	
2.2.2.9 Recommend personnel for training TR: AFIs 36-2101, 36-2201; AFCAT 36-2223								-	-	-	-	
2.2.2.10 Schedule training								-	-	-	-	
2.2.2.11 OJT trainer requirements												

COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
2.2.2.11.1 Prepare teaching outlines or task breakdowns								-	-	-	-
2.2.2.11.2 Provide trainees theory and train on actual equipment								-	-	-	-
2.2.2.11.3 Provide feedback on training provided								-	-	-	-
2.2.2.12 OJT task certifier requirements											
2.2.2.12.1 Develop methods of evaluation to determine trainee knowledge/ qualification, and training effectiveness								-	-	-	-
2.2.2.12.2 Use appropriate method of evaluation and effectively determine trainee s ability								-	-	-	-
2.2.2.12.3 Provide supervisor and trainer feedback on results of training provided, and trainee s strengths/weaknesses								-	-	-	-
2.2.2.13 Perform task certification								-	-	-	-
2.3 SECURITY											
2.3.1 Classification of information								A	-	-	-
2.3.2 Security violation prevention.								A	-	-	-
2.3.3 C4 Systems Security								A	-	-	-
2.3.4 Destruction of classified information								A	-	-	-
2.3.5 Specific vulnerabilities of AFSC 2A0X1								A	-	-	-
2.3.6 Physical security TR: AFI 31-101V1, DODR 5200-8								A	-	-	-
2.4 AF OCCUPATIONAL SAFETY AND HEALTH (AFOSH) PROGRAM TR: AFIs 23-502, 91-301; AFOSH Standards as applicable; TOs 31-1-141-1, 31Z-10-4, 42B-1-23											
2.4.1 Hazards of AFSC 2A0X1								A	B	-	-

COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
2.4.2 AFOSH standards for AFSC 2A0X1								A	B	-	-
2.4.3 Keep work areas clean and safe								2b	-	-	-
2.4.4 Apply safety precautions when Working with:											
2.4.4.1 Electronic equipment								2b	-	-	-
2.4.4.2 High voltage equipment								2b	-	-	-
2.4.4.3 Hand tools								2b	-	-	-
2.4.4.4 Compressed gases								2b	-	-	-
2.4.4.5 Cathode-ray tube (CRT)								-	-	-	-
2.4.4.6 Radio Frequency (RF) sources								2b	-	-	-
2.4.4.7 Radioactive materials								-	-	-	-
2.4.4.8 High intensity sound								-	-	-	-
2.4.5 Effects of RF radiation								A	B	-	-
2.4.6 RF overexposure reporting								A	-	-	-
2.5 HAZARDOUS MATERIALS AND WASTE HANDLING ACCORDING TO ENVIRONMENTAL STANDARDS TR: AFI 90-821											
2.5.1 Types of hazardous material/fluids								B	-	-	-
2.5.2 Review MSDS								B	-	-	-
2.5.3 Handling procedures								B	-	-	-
2.5.4 Storage and labeling								B	-	-	-
2.5.5 Proper disposal								B	-	-	-
2.5.6 Apply safety precautions when working with hazardous materials								2b	-	-	-
2.5.7 Freon Service and Recovery								-	-	-	-
2.5.8 Waste Minimization								-	-	-	-
2.6 TECHNICAL PUBLICATIONS TR: AFD 21-3; TOs 0-1-01, 00-5-1, 00-5-2, 00-5-3, 00-5-16, 00-5-17, 00-25-06-2-2, 51-1-06-1, 80-0-1											
2.6.1 Function and application								A	-	-	-
2.6.2 Technical Order Management								-	-	-	-

COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
2.6.3 Use Technical Order (TO) indexes								-	-	-	-
2.6.4 Use Electronic TOs								2b/-	-	-	-
2.6.5 Use TOs to perform:											
2.6.5.1 Maintenance								2b	-	-	-
2.6.5.2 Line Replaceable Unit (LRU) inspections								2b	-	-	-
2.6.5.3 Time compliance TO								-	-	-	-
2.6.5.4 Part number research								2b	-	-	-
2.6.6 Report TO deficiencies								-	-	-	-
2.6.7 Computer Program Identification Number (CPIN)/(ACPIN) system								A	B	-	-
2.6.8 Use CPIN/ACPIN compendium								-	-	-	-
2.7 AIR FORCE SUPPLY DISCIPLINE TR: AFI 21-101											
2.7.1 Supply Discipline								A	B	-	-
2.7.2 Maintenance Supply Concept								-	-	-	-
2.7.3 Supply Documents Management								-	-	-	-
2.7.4 Equipment Account Management								-	-	-	-
2.7.5 Status of Reports and Training (SORTS)								-	-	-	-
2.7.6 Priority System								-	-	-	-
2.7.7 Repair Cycle Assets								-	-	-	-
2.7.8 Standard Base Supply System (SBSS)								-	-	-	-
2.7.9 Classified Assets Handling								-	-	-	-
2.7.10 Land Mobile Radios, Pagers, and Cell Phones								-	-	-	-
2.7.11 Depot Level Repairables								-	-	-	-
2.7.12 Processing and controlling of material TR: AFI 21-101, & applicable TO 00 series and AFMAN 23-110											
2.7.12.1 Processing and controlling material								A	B	-	-
2.7.12.2 Use condition tags								2b	-	-	-
2.7.12.3 Use issue/turn-in requests								2b	-	-	-

COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
2.7.12.4 Use AFTO form 350 Tags.								2b	-	-	-
2.7.13 Use fed log								2b	-	-	-
2.7.14 Maintain equipment accounts								-	-	-	-
2.8 MAINTENANCE AND INSPECTION											
2.8.1 Duties and responsibilities of shop personnel								-	-	-	-
2.8.2 Maintenance Accountability								-	-	-	-
2.8.3 Operational Risk Management								-	-	-	-
2.8.4 Logistics/ Resource Maintenance Management											
2.8.4.1 Logistics Management								-	-	-	-
2.8.4.2 Resource Management								-	-	-	-
2.8.4.3 Operations/Logistics Group Commander Responsibilities								-	-	-	-
2.8.4.4 PIWG, TIPWG, STP, and PMR								-	-	-	-
2.8.4.5 Financial Plan								-	-	-	-
2.8.4.6 Aircraft Maintenance Management Information Systems								-	-	-	-
2.8.4.7 Aircraft Monitoring								-	-	-	-
2.8.4.8 Unit Self-Assessments								-	-	-	-
2.8.4.9 Maintenance QPM Relationships								-	-	-	-
2.8.4.10 FOD Manager Program								-	-	-	-
2.8.4.11 Mobility								-	-	-	-
2.8.5 Basic functions within maintenance complex TR: AFI 21-101								A	B	-	-
2.8.6 Levels of maintenance TR: AFI 21-101								A	B	-	-
2.8.7 Inspection systems TR: TO 00-20 series								A	B	-	-
2.8.8 Perform quality assurance inspections								-	-	-	-
2.8.9 Fundamentals and Application of Maintenance Data Collection								A	B	-	-

COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
2.8.10 Use automated maintenance data system to: TR: AFM 66-279, 66-278; TO 00-20 series												
2.8.10.1 Access menu and data screens	*							2b	-	-	-	
2.8.10.2 Change performing workcenter codes								-	-	-	-	
2.8.10.3 Change workcenter event narratives								-	-	-	-	
2.8.10.4 Clear or close out completed maintenance discrepancies	*							2b	-	-	-	
2.8.10.5 Conduct delayed discrepancies inquiries	*							2b	-	-	-	
2.8.10.6 Conduct uncompleted maintenance event listing inquiries	*							2b	-	-	-	
2.8.10.7 Enter maintenance data	*							2b	-	-	-	
2.8.10.8 Initiate equipment maintenance discrepancies	*							2b	-	-	-	
2.8.10.9 Load LRU part numbers or serial numbers								-	-	-	-	
2.8.10.10 Start/stop job following events								-	-	-	-	
2.8.10.11 Update inspections	*							-	-	-	-	
2.8.10.12 Extract historical maintenance data	*							-	-	-	-	
2.8.10.13 Management/Supervision Transactions								-	-	-	-	
2.8.10.14 Conduct interface with Standard Base Supply System (SBSS)/supply interface to:												
2.8.10.14.1 Order parts	*							2b	-	-	-	
2.8.10.14.2 Process supply inquiry								2b	-	-	-	
2.8.10.15 Review MDC for accuracy		*						-	-	-	-	
2.8.11 Product Improvement TR: TO 00-35D-54												
2.8.11.1 Deficiency Reporting								A	B	-	-	
2.8.11.2 Complete Deficiency Reports								-	-	-	-	

COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
2.8.11.3 Report Software Deficiencies								-	-	-	-
2.8.11.4 Service Report								-	-	-	-
2.8.11.5 Input/Review DR data in automated maintenance system								-	-	-	-
2.8.12 Job Data Documentation (JDD)								-	-	-	-
2.8.13 Historical Records								-	-	-	-
2.8.14 Status Reports								-	-	-	-
2.8.15 Configuration management								-	-	-	-
2.9 AVIONICS INTERMEDIATE SHOP CONCEPTS TR: TOs 00-25-234, 1-1A-14, 1-1A-15, 32B14-3-1-101, and applicable equipment TOs											
2.9.1 Use Common Tools TR: AFOSH 127-3; TOs 32-1-2, 32-1-101, 32-1-20								2b	-	-	-
2.9.2 Use torque indicating devices								2b	-	-	-
2.9.3 Follow CTK procedures								2b	-	-	-
2.9.4 Maintain CTKs								2b	-	-	-
2.9.5 Use Tool Accountability System (TAS)								-	-	-	-
2.9.6 Identify test equipment categories								-	-	-	-
2.9.7 Maintain test equipment TR: TOs 00-20-7, 00-20-14, 33K-1-53 series, 33K-1-100, applicable test equipment TOs								-	-	-	-
2.9.8 Identify calibration requirements								-	-	-	-
2.9.9 Calibrate test equipment TR: TOs 00-20-14, 33K-1-53 series, 35K-1-100, applicable test equipment TOs								-	-	-	-
2.9.10 Practice electrostatic discharge (ESD) sensitive device procedures/ precautions	*							2b	B	-	-
2.9.11 Practice corrosion control											

COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
2.9.11.1 Clean equipment								-	-	-	-
2.9.11.2 Lubricate equipment								-	-	-	-
2.9.12 Clean optical surfaces								-	-	-	-
2.9.13 Inspect equipment								-	-	-	-
2.9.14 Pack/Unpack LRUs								-	-	-	-
2.9.15 Perform security checks								-	-	-	-
2.9.16 Prepare AF Form 244								-	-	-	-
2.9.17 Use Safetying Devices											
2.9.17.1 Safety Wire								-	-	-	-
2.9.17.2 Shear Wire								-	-	-	-
2.10 AIRCRAFT SYSTEMS THEORY TR: Applicable Aircraft System TOs											
2.10.1 Radar Systems								A	B	-	-
2.10.2 Navigation Systems											
2.10.2.1 Inertial navigation (INS)								A	B	-	-
2.10.2.2 Tactical air navigation (TACAN)								A	B	-	-
2.10.2.3 Global Positioning System (GPS)								A	B	-	-
2.10.2.4 Identification Friend or Foe (IFF)								A	B	-	-
2.10.2.5 Visual Omni Range/Instrument Landing System/Microwave Landing System (VOR/ILS/MLS)								-	A	-	-
2.10.2.6 Radio/RADAR Altimeter								A	B	-	-
2.10.2.7 Compass Systems								-	A	-	-
2.10.3 Flight control systems								A	B	-	-
2.10.4 Weapons/Cargo delivery systems								A	B	-	-
2.10.5 Communication systems											
2.10.5.1 UHF								A	B	-	-
2.10.5.2 VHF								A	B	-	-
2.10.5.3 HF								A	B	-	-
2.10.5.4 SATCOM											
2.10.5.4.1 Dedicated								A	B	-	-
2.10.5.4.2 Demand Assigned Multiple Access (DAMA)								A	B	-	-
2.10.5.5 Interphone/PA System								A	B	-	-

COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
2.10.6 Air data systems								A	B	-	-
2.10.7 Electronic counter measures								A	B	-	-
2.10.8 Flight instruments and displays								A	B	-	-
2.10.9 Bussing and multiplexing systems								A	B	-	-
2.10.10 Avionics integration and control systems								A	A	-	-
2.10.11 Propulsion management systems								A	A	-	-
2.10.12 Autopilot System								A	B	-	-
2.10.13 Pitot & Static System								A	B	-	-
2.10.14 DATALINK								A	B	-	-
2.10.15 ATTITUDE HEADING REFERENCE SYSTEM								A	B	-	-
2.11 TEST STATION PRINCIPLES TR: Applicable Test Station TO											
2.11.1 Power distribution								A	B	-	-
2.11.2 Stimulus devices								A	B	-	-
2.11.3 Measurement devices								A	B	-	-
2.11.4 Computer control								A	B	-	-
2.11.5 IEEE bus communications standard								A	B	-	-
2.11.6 Signal routing								A	B	-	-
2.11.7 488/1553 Data Bus Theory								A	B	-	-
2.12 ABBREVIATED TEST LANGUAGE FOR ALL SYSTEMS (ATLAS) TR: TOs 33D7-38-111-1-3, 33D7-38-111-18-1, 33D7-38-111-82; NA-84-1110H											
2.12.1 Non-test statement Analysis											
2.12.1.1 Data declaration								2b	B	-	-
2.12.1.2 Calculate/compare								2b	B	-	-
2.12.1.3 Decision/branching								2b	B	-	-
2.12.1.4 Input/output/delay								2b	B	-	-
2.12.2 Test statement Analysis											
2.12.2.1 Analog stimulus								2b	B	-	-
2.12.2.2 Analog measurement								2b	B	-	-
2.12.2.3 Digital test								2b	B	-	-

COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
2.12.3 Protocol Theory								A	B	-	-
2.12.4 System procedures								A	B	-	-
2.12.5 Program structure								A	B	-	-
2.13 METROLOGY PRINCIPALS TR: TOs 00-20-14; 33K-1-100, 33k-1-101, 33-1-27, 31-1-141 Series											
2.13.1 Principals											
2.13.1.1 Traceability (Ability to trace the line of documentation to the source standard at National Institute of Standards and Technology)								-	-	-	-
2.13.1.2 Management of Environmental Conditions								-	-	-	-
2.13.1.3 Substitution of TMDE Standards								-	-	-	-
2.13.1.4 Quality Assurance Program								-	-	-	-
2.13.1.5 Calibrate Torque Devices								-	-	-	-
2.13.2 Forms											
2.13.2.1 Use calibration correction charts								2b	-	-	-
2.13.2.2 Complete TMDE form documentation/certification								-	-	-	-
2.13.3 Mathematical Computations (Calculate TMDE related Parameters)								-	-	-	-
2.13.4 Auto-tracking System for the collection of calibration data (PAMS)											
2.13.4.1 Document Maintenance Actions								-	-	-	-
2.13.4.2 Schedule Equipment Maintenance								-	-	-	-
2.13.5 Portable Automatic Test Equipment Calibrator (PATEC)											
2.13.5.1 Principles								-	-	B	-
2.13.5.2 Theory of operation								-	A	-	-

COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
2.13.5.3 Operation								-	-	2b	-
2.13.5.4 Purpose and function of PATEC core								-	A	-	-
2.14 COMMON MANUAL SYSTEMS											
2.14.1 COMMUNICATION SYSTEMS											
2.14.1.1 UHF system (AN/ARC164(C))											
2.14.1.1.1 Radio Test Set (AN/ARM-173)/(TS-4317-1 IFR) TR: TO 33D7-50-159 series											
2.14.1.1.1.1 Theory of operation								-	-	-	-
2.14.1.1.1.2 Operate								2b	-	-	-
2.14.1.1.1.3 Isolate/repair Malfunctions								-	-	-	-
2.14.1.1.2 UHF R/T TR: TOs 12R2-2ARC164-Series											
2.14.1.1.2.1 Theory of operation								A	-	-	-
2.14.1.1.2.2 Perform maintenance testing								2b	-	-	-
2.14.1.1.2.3 Isolate/repair Malfunctions								-	-	-	-
2.14.1.1.3 Radio Set Control TR: TOs 12R2-2ARC164-32, 12R2-2ARC164-92											
2.14.1.1.3.1 Theory of operation								-	-	-	-
2.14.1.1.3.2 Perform maintenance testing								-	-	-	-
2.14.1.1.3.3 Isolate/repair Malfunctions								-	-	-	-
2.14.1.1.4 Channel Frequency Indicator TR: TO 12R2-2ARC164-32											
2.14.1.1.4.1 Theory of operation								-	-	-	-
2.14.1.1.4.2 Perform maintenance testing								-	-	-	-
2.14.1.1.4.3 Isolate/repair Malfunctions								-	-	-	-

COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
2.14.1.2 VHF system (AN/ARC-186(V))												
2.14.1.2.1 Radio Test Set (ARC-186 CTS-90)/(TS-4317-1 IFR)												
2.14.1.2.1.1 Theory of operation								-	-	-	-	
2.14.1.2.1.2 Operate								-	-	-	-	
2.14.1.2.1.3 Isolate/repair Malfunctions								-	-	-	-	
2.14.1.2.2 R/T TR: TO 12R2-2ARC186-2												
2.14.1.2.2.1 Theory of operation								A	-	-	-	
2.14.1.2.2.2 Perform maintenance testing								2b	-	-	-	
2.14.1.2.2.3 Isolate/repair Malfunctions								-	-	-	-	
2.14.1.2.3 Radio Set Control TR: TO 12R2-2ARC186-2												
2.14.1.2.3.1 Theory of operation								-	-	-	-	
2.14.1.2.3.2 Perform maintenance testing								-	-	-	-	
2.14.1.2.3.3 Isolate/repair Malfunctions								-	-	-	-	
2.14.1.3 Airborne Video Tape Recorder (AVTR) TR: Applicable Factory Manuals/TOs												
2.14.1.3.1 Functional Check								-	-	-	-	
2.14.1.3.2 Troubleshoot/Repair								-	-	-	-	
2.14.1.3.3 Clean/Demagnetize								-	-	-	-	
2.14.2 CRYPTOGRAPHIC SYSTEMS												
2.14.2.1 Mode 4 System (KIT-1C) TR: TOs KAM-220/TSEC(C), KAM-225D/TSEC(C), KAM-528A/TSEC, SAM-22B/TSEC©												
2.14.2.1.1 Mode 4 Computer Test Set (TSEC/ST-21)												
2.14.2.1.1.1 Theory of operation								-	-	-	-	
2.14.2.1.1.2 Operate								-	-	-	-	

COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
2.14.2.1.1.3 Isolate/repair malfunctions								-	-	-	-
2.14.2.1.2 Transponder Computer (KIT)											
2.14.2.1.2.1 Theory of operation								-	-	-	-
2.14.2.1.2.2 Perform maintenance testing								-	-	-	-
2.14.2.1.2.3 Isolate/repair Malfunctions								-	-	-	-
2.14.2.1.3 Interrogator Computer (KIR)											
2.14.2.1.3.1 Theory of operation								-	-	-	-
2.14.2.1.3.2 Perform maintenance testing								-	-	-	-
2.14.2.1.3.3 Isolate/repair Malfunctions								-	-	-	-
2.14.2.2 Secure Voice Communication System TR: TOs KAM337A/TSEC(C), KAM339A/TSEC(C)											
2.14.2.2.1 Secure Voice Test Set (ST-44)											
2.14.2.2.1.1 Theory of operation								-	-	-	-
2.14.2.2.1.2 Operate								-	-	-	-
2.14.2.2.1.3 Isolate/repair Malfunctions								-	-	-	-
2.14.2.2.2 R/T (KY-58/100)											
2.14.2.2.2.1 Theory of operation								-	-	-	-
2.14.2.2.2.2 Perform maintenance testing								-	-	-	-
2.14.2.2.2.3 Isolate/repair Malfunctions								-	-	-	-
2.14.2.2.3 Adapter Unit (KY-58)											
2.14.2.2.3.1 Theory of operation								-	-	-	-
2.14.2.2.3.2 Perform maintenance testing								-	-	-	-
2.14.2.2.3.3 Isolate/repair Malfunctions								-	-	-	-
2.14.2.2.4 Control Panel (KY-58/100)											
2.14.2.2.4.1 Theory of operation								-	-	-	-
2.14.2.2.4.2 Perform maintenance testing								-	-	-	-

COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
2.14.2.2.4.3 Isolate/repair Malfunctions								-	-	-	-
2.14.3 NAVIGATION SYSTEMS											
2.14.3.1 APX-101 Identification Friend or Foe (IFF) System											
2.14.3.1.1 Theory of Operation								-	B	-	-
2.14.3.1.2 IFF Test Set (AN/UPM-155) TR: TO 33D7-14-9-1											
2.14.3.1.2.1 Theory of operation								-	-	-	-
2.14.3.1.2.2 Operate								-	-	-	-
2.14.3.1.2.3 Isolate/repair Malfunctions								-	-	-	-
2.14.3.1.3 IFF Interface Test Set(AN/APM-406) TR: TO 33D2-8-358-1											
2.14.3.1.3.1 Theory of operation								-	-	-	-
2.14.3.1.3.2 Operate								-	-	-	-
2.14.3.1.3.3 Isolate/repair Malfunctions								-	-	-	-
2.14.3.1.4 R/T (AN/APX-101) TR: TOs 12P4-2APX101-2 series, 33D7-50-402 Series											
2.14.3.1.4.1 Theory of operation								-	-	-	-
2.14.3.1.4.2 Perform maintenance testing								-	-	-	-
2.14.3.1.4.3 Isolate/repair Malfunctions								-	-	-	-
2.14.3.1.5 R/T (RT-1063 B/C) TR: TOs 12P4-2APX101-2 series											
2.14.3.1.5.1 Theory of operation								-	-	-	-
2.14.3.1.5.2 Perform maintenance testing								-	-	-	-
2.14.3.1.5.3 Isolate/repair Malfunctions								-	-	-	-
2.14.3.1.6 Control Panel TR: TO 12P4-2APX-142											
2.14.3.1.6.1 Theory of operation								-	-	-	-
2.14.3.1.6.2 Perform maintenance testing								-	-	-	-

COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
2.14.3.1.6.3 Isolate/repair Malfunctions								-	-	-	-
2.14.3.2 Instrument Landing System (ILS) (AN/ARN-108)											
2.14.3.2.1 Operate ILS Signal Generator (479S-6) TR: TO 33A1-8-843-1								-	-	-	-
2.14.3.2.2 Interface Test Set (967A-1) TR: TO 33D7-50-378-1											
2.14.3.2.2.1 Operate								-	-	-	-
2.14.3.2.2.2 Isolate/repair Malfunctions								-	-	-	-
2.14.3.2.3 Receiver (R-1871) TR: TO 12R5-2ARN108-42											
2.14.3.2.3.1 Theory of operation								-	-	-	-
2.14.3.2.3.2 Perform maintenance testing								-	-	-	-
2.14.3.2.3.3 Isolate/repair Malfunctions								-	-	-	-
2.14.3.2.4 Control Panel (C-9445) TR: TO 12R5-2ARN108-42											
2.14.3.2.4.1 Theory of operation								-	-	-	-
2.14.3.2.4.2 Perform maintenance testing								-	-	-	-
2.14.3.2.4.3 Isolate/repair Malfunctions								-	-	-	-
2.14.3.3 Tactical Air Navigation (TACAN) system (AN/ARN-118)											
2.14.3.3.1 TACAN Test Set (972V-1)/(AN/ARM 135A) TR: TOs 33D2-8-383-1, 33D2-8-329-1, 33D2-8-365-1											
2.14.3.3.1.1 Inspect/Operate								2b	-	-	-
2.14.3.3.1.2 Isolate/repair Malfunctions								-	-	-	-
2.14.3.3.1.3 Calibrate								-	-	-	-

COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
2.14.3.3.2 TACAN TEST Set (972V-1)/(ATC-1400 A/T-1401) TR: TOs 33D2-8-383-1, 33D2-8-329-1, 33D2-8-365-1												
2.14.3.3.2.1 Inspect/Operate								2b/-	-	-	-	-
2.14.3.3.2.2 Isolate/repair Malfunctions								-	-	-	-	-
2.14.3.3.2.3 Calibrate								-	-	-	-	-
2.14.3.3.3 Control Box TR: TO 12R5-2ARN 118-12												
2.14.3.3.3.1 Theory of operation								-	-	-	-	-
2.14.3.3.3.2 Perform maintenance testing								-	-	-	-	-
2.14.3.3.3.3 Isolate/repair Malfunctions								-	-	-	-	-
2.14.3.3.4 R/T (RT-1159) TR: TO 12R5-2ARN118-12												
2.14.3.3.4.1 Theory of operation								A	B	-	-	-
2.14.3.3.4.2 Perform maintenance testing								2b	-	-	-	-
2.14.3.3.4.3 Isolate/repair Malfunctions								-	-	-	-	-
2.14.3.3.5 Adapter (MX-9577A) TR: TO 12R5-2ARN118-12												
2.14.3.3.5.1 Theory of operation								-	-	-	-	-
2.14.3.3.5.2 Perform maintenance testing								-	-	-	-	-
2.14.3.3.5.3 Isolate/repair Malfunctions								-	-	-	-	-
2.14.3.3.6 Mounting Base TR: TO 12R5-2ARN118-12												
2.14.3.3.6.1 Theory of operation								-	-	-	-	-
2.14.3.3.6.2 Perform maintenance testing								-	-	-	-	-
2.14.3.3.6.3 Isolate/repair Malfunctions								-	-	-	-	-

COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
2.14.3.4 Global Positioning System TR: TOs 12R5-2ARN151-12, 12R5-2ARN151-32												
2.14.3.4.1 Theory of operation								-	B	-	-	
2.14.3.4.2 GPS RCV R2332												
2.14.3.4.2.1 Bench Check								-	-	-	-	
2.14.3.4.2.2 Alignment								-	-	-	-	
2.14.3.4.2.3 Isolate/repair malfunctions								-	-	-	-	
2.14.3.4.3 GPS Avionics Electronic Unit (AE-1)												
2.14.3.4.3.1 Bench Check								-	-	-	-	
2.14.3.4.3.2 Alignment								-	-	-	-	
2.14.3.4.3.3 Isolate/repair Malfunctions								-	-	-	-	
2.14.3.4.4 GPS Test Set												
2.14.3.4.4.1 Theory of operation								-	-	-	-	
2.14.3.4.4.2 Inspect/Operate								-	-	-	-	
2.15 ANCILLARY COMMON TASKS												
2.15.1 Computers and Computer Usage												
2.15.1.1 Application Use								-	-	-	-	
2.15.1.2 Operating Systems								-	-	-	-	
2.15.1.3 Hardware								-	-	-	-	
2.15.1.4 Local Area Networks (LAN)								-	-	-	-	
2.15.2 Digital Techniques												
2.15.2.1 Applications/Calibrations								-	-	B	-	
2.15.2.2 Components								-	-	B	-	
2.16 RF COMPONENTS												
2.16.1 Principles								-	-	B	-	
2.16.2 Theory of Operation												
2.16.2.1 Directional Couplers								A	B	-	-	
2.16.2.2 Mixers								A	B	-	-	
2.16.2.3 Power Dividers								A	B	-	-	
2.16.2.4 Isolators								A	B	-	-	
2.16.2.5 Filters								A	B	-	-	
2.16.2.6 Attenuators								A	B	-	-	
2.16.3 Isolate/Identify Malfunctions								-	-	2b	-	
2.17 REPAIR MALFUNCTIONS USING:												

COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
2.17.1 Directional Couplers								-	-	-	-
2.17.2 Mixers								-	-	-	-
2.17.3 Power Dividers								-	-	-	-
2.17.4 Isolators								-	-	-	-
2.17.5 Filters								-	-	-	-
2.17.6 Attenuators								-	-	-	-
2.18 ELECTRONIC COUNTERMEASURES											
2.18.1 ALR 69 RWR System											
2.18.1.1 AN/APM 380 Test Set TR: TOs 33D7-2-23 series											
2.18.1.1.1 Operate								-	-	-	-
2.18.1.1.2 Isolate/repair Malfunctions								-	-	-	-
2.18.1.2 Azimuth Indicator (IP-1310/ALR) TR: TOs 12P3-2ALR-2, 33D7-2-23-2											
2.18.1.2.1 Theory of operation								-	-	-	-
2.18.1.2.2 Operational check								-	-	-	-
2.18.1.2.3 Perform alignment								-	-	-	-
2.18.1.2.4 Isolate/repair Malfunctions								-	-	-	-
2.18.1.3 E-J Amplifier Detector (AM-6639/ALR-46) TR: TOs 12P3-2ALR-62, 33D7-2-23-2											
2.18.1.3.1 Theory of operation								-	-	-	-
2.18.1.3.2 Operational check								-	-	-	-
2.18.1.3.3 Perform alignment								-	-	-	-
2.18.1.3.4 Isolate/repair Malfunctions								-	-	-	-
2.18.1.4 Indicator-Control (C-10371/ALR) TR: TOs 12P3-2ALR-12, 33D7-2-23-2											
2.18.1.4.1 Theory of operation								-	-	-	-
2.18.1.4.2 Operational check								-	-	-	-
2.18.1.4.3 Isolate/repair Malfunctions								-	-	-	-
2.18.1.5 Radar Amplifier Test Set (AN/ALM-196) TR: TO 33D7-22-24-2											

COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
2.18.1.5.1 Operate								-	-	-	-
2.18.1.5.2 Isolate/repair Malfunctions								-	-	-	-
2.18.1.6 C-D Amplifier Detector (AM-6971/ALR-69) TR: TOs 12P3-2ALR69-68-1, 33D7-22-24-2											
2.18.1.6.1 Theory of operation								-	-	-	-
2.18.1.6.2 Operational check								-	-	-	-
2.18.1.6.3 Perform alignment								-	-	-	-
2.18.1.6.4 Isolate/repair Malfunctions								-	-	-	-
2.18.1.7 Signal Processor Test Set (AN/APM-379) TR: TO 33A1-8-723-1											
2.18.1.7.1 Operate								-	-	-	-
2.18.1.7.2 Isolate/repair Malfunctions								-	-	-	-
2.18.1.8 Signal Processor (CM-479/ALR-69) TR: TOs 12P3-2ALR69-92, 12P3-2ALR69-98-1, 33D7-50-708-1											
2.18.1.8.1 Theory of operation								-	-	-	-
2.18.1.8.2 Operational check								-	-	-	-
2.18.1.8.3 Isolate/repair Malfunctions								-	-	-	-
2.18.1.9 Receiver/Receiver Controller Test Set (AN/ALM-191) TR: TOs 33D7-36-40-1, 33D7-36-40-8-1											
2.18.1.9.1 Operate								-	-	-	-
2.18.1.9.2 Isolate/repair Malfunctions								-	-	-	-
2.18.1.10 Frequency Selective Receiver System (FSRS) Receiver (ALR-69) TR: TOs 12P3-2ALR69-18-1, 33D7-36-40-1, 33D7-36-40-8-1											
2.18.1.10.1 Theory of operation								-	-	-	-
2.18.1.10.2 Operational check								-	-	-	-

COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
2.18.1.10.3 Isolate/repair Malfunctions								-	-	-	-
2.18.1.11 FSRS Receiver Controller (ALR-69) TR: TOs 12P3-2ALR69-12, 12P3-2ALR69-28-1, 33D7-36-40-1, 33D7-36-40-8-1											
2.18.1.11.1 Theory of operation								-	-	-	-
2.18.1.11.2 Operational check								-	-	-	-
2.18.1.11.3 Isolate/repair Malfunctions								-	-	-	-
2.18.1.12 Electronic Systems Test Set (AN/ALM-197) TR: TO 33AA40-7-1											
2.18.1.12.1 Operate								-	-	-	-
2.18.1.12.2 Isolate/repair Malfunctions								-	-	-	-
2.18.1.13 Transmission Line Coupler (CU-2220/ALR-69) TR: TOs 12P3-2ALR69-42, 33AA40-7-1											
2.18.1.13.1 Theory of operation								-	-	-	-
2.18.1.13.2 Operational check								-	-	-	-
2.18.1.13.3 Isolate/repair Malfunctions								-	-	-	-
2.18.2 ALE 40 Chaff/Flare System											
2.18.2.1 AN/ALM-177B Test Set TR: TO 33D7-13-75-11											
2.18.2.1.1 Operate								-	-	-	-
2.18.2.1.2 Isolate/repair Malfunctions								-	-	-	-
2.18.2.1.3 Calibrate								-	-	-	-
2.18.2.2 AN/ALM-184 Test Set TR: TO 33D7-13-77-1											
2.18.2.2.1 Operate								-	-	-	-
2.18.2.2.2 Isolate/repair Malfunctions								-	-	-	-
2.18.2.2.3 Calibrate								-	-	-	-

COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
2.18.2.3 Electronic Programmer (C10286/ALE-40) TR: TOs 12P3-2ALE40-2, 12P3-2ALE40-2-1, 33D7-13-77-1												
2.18.2.3.1 Theory of operation								-	-	-	-	
2.18.2.3.2 Operational check								-	-	-	-	
2.18.2.3.3 Isolate/repair Malfunctions								-	-	-	-	
2.18.2.4 Chaff/Flare Cockpit Control Unit TR: TOs 12P3-4-73-2, 33D7-13-77-1												
2.18.2.4.1 Theory of operation								-	-	-	-	
2.18.2.4.2 Operational check								-	-	-	-	
2.18.2.4.3 Isolate/repair Malfunctions								-	-	-	-	
2.18.2.5 Digital Sequencer Switch TR: TOs 12P3-2ALE40-72, 33D7-13-77-1												
2.18.2.5.1 Theory of operation								-	-	-	-	
2.18.2.5.2 Operational check								-	-	-	-	
2.18.2.5.3 Isolate/repair Malfunctions								-	-	-	-	
2.18.2.6 Chaff/Flare Selector Switch P/N 139651-0001-1 TR: TOs 12P3-2ALE40-72, 33D7-13-77-1												
2.18.2.6.1 Theory of operation								-	-	-	-	
2.18.2.6.2 Operational check								-	-	-	-	
2.18.2.6.3 Isolate/repair Malfunctions								-	-	-	-	
2.18.2.7 EMI Filter Assembly PN: 135878-0001 TR: TOs 12P3-2ALE40-72, 33D7-13-77-1												
2.18.2.7.1 Theory of operation								-	-	-	-	
2.18.2.7.2 Operational check								-	-	-	-	
2.18.2.7.3 Isolate/repair Malfunctions								-	-	-	-	

COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
2.18.2.8 Safety Switch Assembly (SA-2671/ALE-47) TR: TOs 12P3-2ALE40-72, 12P3-2ALE47-72, 33D7-13-77-1, 33D7-13-228-1												
2.18.2.8.1 Theory of operation								-	-	-	-	
2.18.2.8.2 Operational check								-	-	-	-	
2.18.2.8.3 Isolate/repair Malfunctions								-	-	-	-	
2.18.2.9 Digital Computer Systems (AN/GYQ59) TR: TO 33D7-3-326-8-1												
2.18.2.9.1 Operate								-	-	-	-	
2.19 USE TEST EQUIPMENT TR: Applicable equipment TO(s) / manual(s)												
2.19.1 Frequency counter								2b	-	-	-	
2.19.2 Field strength tester								-	-	-	-	
2.19.3 Capacitor tester								-	-	-	-	
2.19.4 Capacitor substitution box								-	A	-	-	
2.19.5 Logic analyzer								-	-	-	-	
2.19.6 Signature analyzer								-	-	-	-	
2.19.7 Spectrum analyzer								2b	-	-	-	
2.19.8 Power measurement devices								2b	-	-	-	
2.19.9 Clinometer								-	-	-	-	
2.19.10 Use Time Domain Reflectometer								-	-	-	-	
2.19.11 Modulation Meter								2b	-	-	-	
2.19.12 Distortion Analyzer								2b	-	-	-	
2.19.13 Bus Analyzer								-	-	-	-	
2.19.14 Decade Resistor								-	-	-	-	
2.19.15 Spotmeter								-	-	-	-	
2.19.16 Watt Meter								2b	-	-	-	
2.19.17 Milliohm Meter, Digital								2b	-	-	-	
2.19.18 Synchro Tester								-	-	-	-	
2.19.19 Tube Tester								-	-	-	-	
2.19.20 Power Supply								2b	-	-	-	
2.19.21 Digital Logic Probe								-	-	-	-	
2.19.22 DC Restorer								-	-	-	-	
2.19.23 Logic Current Tracer								-	-	-	-	
2.19.24 Logic Pulser								-	-	-	-	

COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level	5 Skill Level	7 Skill Level	
								(1) Course	(1) CDC	(1) Course	(2) CDC
2.19.25 Logic Analyzer								-	-	-	-
2.19.26 Audio Oscillator								2b	-	-	-

A-10 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
ATTACHMENT 3											
NOTE 1: All course requirements are trained in the 3-level resident wartime course. The 7-level in-residence course is not taught in wartime.											
NOTE 2: Users are responsible for annotating training references to identify current references pending STS revision											
NOTE 3: Items marked in columns 2a or 2b with a “*R” are optional core tasks for ANG and AFRC.											
NOTE 4: Address comments and recommended changes through the MAJCOM Functional Managers to the AETC Training Manager, DSN 736-7899.											
3 ATTACHMENT 3, A-10 TRAINING REQUIREMENTS											
3.1 A-10 IATS PECULIAR SOFTWARE SYSTEM											
3.1.1 Software theory											
3.1.1.1 MATE Operating System (MOS)								-	-	-	-
3.1.1.2 MATE On-Line Editor (MOLE)								-	-	-	-
3.1.1.3 MATE ATLAS Compiler (MAC)								-	-	-	-
3.1.1.4 MATE Test Executive (MTE)								-	-	-	-
3.1.1.5 Application software											
3.1.1.5.1 Computer diagnostics								-	-	-	-
3.1.1.5.2 Peripheral tests								-	-	-	-
3.1.1.5.3 Self-test								-	-	-	-
3.1.1.5.4 Calibration								-	-	-	-
3.1.1.5.5 LRU programs								-	-	-	-
3.1.2 Software procedures TR: TO 33D2-38-182 series; UM 2806820											
3.1.2.1 Use MOLE to edit software								-	-	-	-
3.1.2.2 Use MAC to update software								-	-	-	-
3.1.2.3 MOS											
3.1.2.3.1 Use print files								-	-	-	-
3.1.2.3.2 Interpret existing files								-	-	-	-
3.1.2.3.3 Manipulate existing files								-	-	-	-
3.1.2.3.4 Manipulate system utilities								-	-	-	-
3.1.2.3.5 Use MTE								-	-	-	-
3.1.2.3.6 Interpret ATLAS programs								-	-	-	-
3.1.2.4 Isolate malfunctions using											
3.1.2.4.1 MTE								-	-	-	-
3.1.2.4.2 ATLAS program listings								-	-	-	-
3.1.2.4.3 Self-test								-	-	-	-
3.1.2.4.4 Computer diagnostics								-	-	-	-
3.1.2.4.5 Peripheral tests								-	-	-	-

A-10 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
3.1.2.4.6 Built-In-Test (BIT)								-	-	-	-
3.2 A-10 INTERMEDIATE AUTOMATIC TEST STATION (IATS) TR: TO 33D7-38-182 series											
3.2.1 IATS Theory of operation											
3.2.1.1 Power subsystem								-	-	-	-
3.2.1.2 Computer subsystem								-	-	-	-
3.2.1.3 Stimulus/Masurement subsystem								-	-	-	-
3.2.1.4 Switching subsystem								-	-	-	-
3.2.1.5 Pressure subsystem								-	-	-	-
3.2.2 Perform required inspections											
3.2.2.1 Daily								-	-	-	-
3.2.2.2 30 day								-	-	-	-
3.2.2.3 180 day								-	-	-	-
3.2.2.4 360 day								-	-	-	-
3.2.2.5 1000 hour operational check on Pressure Supply								-	-	-	-
3.2.3 Perform calibration								-	-	-	-
3.2.4 System fault/emergency shutdown recovery								-	-	-	-
3.2.5 Isolate/repair Malfunctions											
3.2.5.1 Power subsystem								-	-	-	-
3.2.5.2 Computer subsystem								-	-	-	-
3.2.5.3 Stimulus/Masurement subsystem								-	-	-	-
3.2.5.4 Switching subsystem								-	-	-	-
3.2.5.5 Pressure subsystem								-	-	-	-
3.2.6 Test station/ITA/LRU interface								-	-	-	-
3.2.7 IATS LRU Maintenance											
3.2.7.1 Central Air Data Computer (CADC) TR: TOs 5F5-4-29 series											
3.2.7.1.1 Theory of operation								-	-	-	-
3.2.7.1.2 Operational check								-	-	-	-
3.2.7.1.3 Isolate/repair Malfunctions								-	-	-	-
3.2.7.2 Control Display Unit (CDU) TR: TOs 5N29-13 series											
3.2.7.2.1 Theory of operation								-	-	-	-

A-10 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
3.2.7.2.2 Operational check								-	-	-	-
3.2.7.2.3 Isolate/repair Malfunctions								-	-	-	-
3.2.7.3 Master Bus Controller (MBC) TR: TOs 5N6-4-14 series											
3.2.7.3.1 Theory of operation								-	-	-	-
3.2.7.3.2 Operational check								-	-	-	-
3.2.7.3.3 Isolate/repair Malfunctions								-	-	-	-
3.2.7.4 Inertial Navigation Unit (INU) TR: TOs 5N1-4-15 series											
3.2.7.4.1 Theory of operation								-	-	-	-
3.2.7.4.2 Operational check								-	-	-	-
3.2.7.4.3 Isolate/repair Malfunctions								-	-	-	-
3.2.7.5 HUD Control Unit (CU) TR: TOs 11F47-13 series											
3.2.7.5.1 Theory of operation								-	-	-	-
3.2.7.5.2 Operational check								-	-	-	-
3.2.7.5.3 Isolate/repair Malfunctions								-	-	-	-
3.2.7.6 Turbine Engine Monitoring System (TEMS) Electronic Processor Unit (CP-1481) TR: TOs 5E18-2 series											
3.2.7.6.1 Theory of operation								-	-	-	-
3.2.7.6.2 Operational check								-	-	-	-
3.2.7.6.3 Isolate/repair Malfunctions								-	-	-	-
3.2.7.7 TEMS Data Collection Unit (MM-718) TR: TOs 33D7-61-95 series											
3.2.7.7.1 Theory of operation								-	-	-	-
3.2.7.7.2 Operational check								-	-	-	-
3.2.7.7.3 Isolate/repair Malfunctions								-	-	-	-
3.2.7.8 TEMS Diagnostic Display Unit (DDU) TR: TOs 33D7-61-96 series											
3.2.7.8.1 Theory of operation								-	-	-	-
3.2.7.8.2 Operational check								-	-	-	-

A-10 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
3.2.7.8.3 Isolate/repair malfunctions								-	-	-	-
3.2.7.9 TEMS Umbilical Display Unit (UDU) TR: TOs 5E19-2 series											
3.2.7.9.1 Theory of operation								-	-	-	-
3.2.7.9.2 Operational check								-	-	-	-
3.2.7.9.3 Isolate/repair Malfunctions								-	-	-	-
3.3 MANUAL SUPPORT EQUIPMENT/ LRU MAINTENANCE											
3.3.1 Direction Finder Group Test Set (970V-1) TR: TO 33D2-8-363-1											
3.3.1.1 Operate								-	-	-	-
3.3.1.2 Isolate/repair Malfunctions								-	-	-	-
3.3.1.3 Calibrate								-	-	-	-
3.3.2 Time Signal Set (AN/TRC-177/187) TR: TO 49B3-39-2											
3.3.2.1 Operate								-	-	-	-
3.3.2.2 Isolate/repair Malfunctions								-	-	-	-
3.3.3 Direction Finder Antenna (DF-301) TR: TO 12R5-4-154-1											
3.3.3.1 Theory of operation								-	-	-	-
3.3.3.2 Perform maintenance testing								-	-	-	-
3.3.3.3 Isolate/repair Malfunctions								-	-	-	-
3.3.4 Antenna Test Set (AN/ARM-115) TR: TO 33D7-35-35-1											
3.3.4.1 Operate								-	-	-	-
3.3.4.2 Isolate/repair Malfunctions								-	-	-	-
3.3.5 FM Antenna (437S-1C) TR: TO 12R2-4-95-1											
3.3.5.1 Theory of operation								-	-	-	-
3.3.5.2 Perform maintenance testing								-	-	-	-
3.3.5.3 Isolate/repair Malfunctions								-	-	-	-
3.3.6 FM Signal Data Comparator TR: TO 12R2-2ARC186-2											
3.3.6.1 Theory of operation								-	-	-	-

A-10 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
3.3.6.2 Perform maintenance testing								-	-	-	-
3.3.6.3 Isolate/repair Malfunctions								-	-	-	-
3.3.7 Miscellaneous Comm Systems											
3.3.7.1 Intercommunication panel TR: TOs 12R2-2AIC18-2, 12R2-AIC25-2											
3.3.7.1.1 Test								-	-	-	-
3.3.7.1.2 Isolate/repair Malfunctions								-	-	-	-
3.3.8 Weapons Control Systems											
3.3.8.1 HUD System LRU Test Set TR: TOs 33D2-46-5 series											
3.3.8.1.1 Operate								-	-	-	-
3.3.8.1.2 Isolate/repair Malfunctions								-	-	-	-
3.3.8.1.3 Calibrate								-	-	-	-
3.3.8.2 HUD Boresight Fixture TR: TO 33D7-27-14-1											
3.3.8.2.1 Operate								-	-	-	-
3.3.8.2.2 Align								-	-	-	-
3.3.8.3 TV Monitor Test Set TR: TO 33D7-15-20-1											
3.3.8.3.1 Operate								-	-	-	-
3.3.8.3.2 Isolate/repair Malfunctions								-	-	-	-
3.3.8.4 Weapons Control Test Set (AN-ASM184B) TR: TO 33D5-12-187-1											
3.3.8.4.1 Operate								-	-	-	-
3.3.8.4.2 Isolate/repair Malfunctions								-	-	-	-
3.3.8.4.3 Calibrate								-	-	-	-
3.3.8.5 Projection Unit TR: TO 11F47-13-7 series											
3.3.8.5.1 Theory of operation								-	-	-	-
3.3.8.5.2 Perform maintenance testing								-	-	-	-
3.3.8.5.3 Isolate/repair Malfunctions								-	-	-	-

A-10 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
3.3.8.6 Television Monitor (Hartman) TR: TO 112S6-4-35 series											
3.3.8.6.1 Theory of operation								-	-	-	-
3.3.8.6.2 Perform maintenance testing								-	-	-	-
3.3.8.6.3 Isolate/repair Malfunctions								-	-	-	-
3.3.8.7 Television Monitor (Cardion) TR: TO 12S6-4-32 series											
3.3.8.7.1 Theory of operation								-	-	-	-
3.3.8.7.2 Perform maintenance testing								-	-	-	-
3.3.8.7.3 Isolate/repair Malfunctions								-	-	-	-
3.3.8.8 TV Control Unit (Hartman) TR: TO 12S6-4-35 series											
3.3.8.8.1 Theory of operation								-	-	-	-
3.3.8.8.2 Perform maintenance testing								-	-	-	-
3.3.8.8.3 Isolate/repair Malfunctions								-	-	-	-
3.3.8.9 TV Control Unit (Cardion) TR: TO 12S6-4-32 series											
3.3.8.9.1 Theory of operation								-	-	-	-
3.3.8.9.2 Perform maintenance testing								-	-	-	-
3.3.8.9.3 Isolate/repair Malfunctions								-	-	-	-
3.3.9 Stability Augmentation System (SAS)											
3.3.9.1 SAS Computer Test Set TR: TO 33D2-33-4-1											
3.3.9.1.1 Operate								-	-	-	-
3.3.9.1.2 Isolate/repair Malfunctions								-	-	-	-
3.3.9.1.3 Calibrate								-	-	-	-
3.3.9.2 Rate Table TR: TO 33D3-10-36-1											
3.3.9.2.1 Operate								-	-	-	-
3.3.9.2.2 Isolate/repair Malfunctions								-	-	-	-
3.3.9.2.3 Calibrate								-	-	-	-

A-10 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
3.3.9.3 SAS Control Panel TR: TO 5A13-5-17-3												
3.3.9.3.1 Theory of operation								-	-	-	-	
3.3.9.3.2 Perform maintenance testing								-	-	-	-	
3.3.9.3.3 Isolate/repair Malfunctions								-	-	-	-	
3.3.10 Low Altitude Safety and Targeting Enhancement (LASTE) System												
3.3.10.1 LASTE Computer Test Set												
3.3.10.1.1 Operate								-	-	-	-	
3.3.10.1.2 Isolate/repair Malfunctions								-	-	-	-	
3.3.10.2 LASTE SAS Computer Test Set TR: TO 33D2-33-4-1												
3.3.10.2.1 Operate								-	-	-	-	
3.3.10.2.2 Isolate/repair Malfunctions								-	-	-	-	
3.3.10.3 LASTE Computer TR: TO 11G6-2-3-2												
3.3.10.3.1 Theory of operation								-	-	-	-	
3.3.10.3.2 Perform maintenance testing								-	-	-	-	
3.3.10.3.3 Isolate/repair Malfunctions								-	-	-	-	
3.3.10.4 LASTE SAS Computer TR: TO 5A7-3-33-2												
3.3.10.4.1 Theory of operation								-	-	-	-	
3.3.10.4.2 Perform maintenance testing								-	-	-	-	
3.3.10.4.3 Isolate/repair Malfunctions								-	-	-	-	
3.3.10.5 LASTE Control Box TR: TO 5A13-5-17-2												
3.3.10.5.1 Theory of operation								-	-	-	-	
3.3.10.5.2 Perform maintenance testing								-	-	-	-	
3.3.10.5.3 Isolate/repair Malfunctions								-	-	-	-	
3.3.11 Fuel Quantity Indication System												

A-10 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
3.3.11.1 Fuel Quantity Test Set TR: TO 33D2-3-88-1												
3.3.11.1.1 Operate								-	-	-	-	
3.3.11.1.2 Isolate/repair Malfunctions								-	-	-	-	
3.3.11.1.3 Calibrate								-	-	-	-	
3.3.11.2 Fuel Quantity Intermediate Device TR: TO 5L3-2-4-3												
3.3.11.2.1 Theory of operation								-	-	-	-	
3.3.11.2.2 Perform maintenance testing								-	-	-	-	
3.3.11.2.3 Isolate/repair Malfunctions								-	-	-	-	
3.3.11.3 Fuel Quantity Indicator TR: TO 5L6-3-67-3												
3.3.11.3.1 Theory of operation								-	-	-	-	
3.3.11.3.2 Perform maintenance testing								-	-	-	-	
3.3.12 Air data and Instrument Systems												
3.3.12.1 Pneumatic Test Set (TTU-205) TR: TO 33D7-3-60-31												
3.3.12.1.1 Operate								-	-	-	-	
3.3.12.1.2 Troubleshoot								-	-	-	-	
3.3.12.2 Altitude Encoder Test Set (TTU-229) TR: TO 33D7-3-101-11												
3.3.12.2.1 Operate								-	-	-	-	
3.3.12.2.2 Isolate/repair Malfunctions								-	-	-	-	
3.3.12.3 HSI Test Set TR: 33D2-6-218-1												
3.3.12.3.1 Operate								-	-	-	-	
3.3.12.3.2 Isolate/repair Malfunctions								-	-	-	-	
3.3.12.4 Universal Attitude Indicator Test Set TR: TO 33D3-17-9-1												
3.3.12.4.1 Operate								-	-	-	-	
3.3.12.4.2 Isolate/repair Malfunctions								-	-	-	-	

A-10 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
3.3.12.5 Alpha-Mach Computer Test Set TR: TO 33D7-10-105-1												
3.3.12.5.1 Operate								-	-	-	-	
3.3.12.5.2 Isolate/repair Malfunctions								-	-	-	-	
3.3.12.5.3 Calibrate								-	-	-	-	
3.3.12.6 Standby Attitude Indicator Test Set TR: TO 33D2-6-225-1												
3.3.12.6.1 Operate								-	-	-	-	
3.3.12.6.2 Isolate/repair Malfunctions								-	-	-	-	
3.3.12.6.3 Calibrate								-	-	-	-	
3.3.12.7 Altimeter TR: TO 5F3-3-28-2												
3.3.12.7.1 Theory of operation								-	-	-	-	
3.3.12.7.2 Perform Maintenance Testing								-	-	-	-	
3.3.12.7.3 Adjust								-	-	-	-	
3.3.12.8 Vertical Velocity Indicator TR: TO 5F8-9-12-3												
3.3.12.8.1 Theory of operation								-	-	-	-	
3.3.12.8.2 Perform maintenance testing								-	-	-	-	
3.3.12.9 Airspeed Indicator TR: TO 5F8-2-65-3												
3.3.12.9.1 Theory of operation								-	-	-	-	
3.3.12.9.2 Perform maintenance testing								-	-	-	-	
3.3.12.10 Triple Airspeed Switch TR: TO 8S2-9-13-3												
3.3.12.10.1 Theory of operation								-	-	-	-	
3.3.12.10.2 Perform maintenance testing								-	-	-	-	
3.3.12.11 Standby Attitude Indicator (SAI) TR: TO 5F8-3-34-2												
3.3.12.11.1 Theory of operation								-	-	-	-	
3.3.12.11.2 Perform maintenance testing								-	-	-	-	
3.3.12.12 Alpha-Mach Computer TR: TO 5F5-9-4-3												

A-10 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
3.3.12.12.1 Theory of operation								-	-	-	-
3.3.12.12.2 Perform maintenance testing								-	-	-	-
3.3.12.12.3 Isolate/repair Malfunctions								-	-	-	-
3.3.12.13 Attitude Director Indicator (ADI) TR: TO 5F8-3-24-3											
3.3.12.13.1 Theory of operation								-	-	-	-
3.3.12.13.2 Perform maintenance testing								-	-	-	-
3.3.12.14 Horizontal Situation Indicator (HSI) TR: TO 5F8-16-5-2											
3.3.12.14.1 Theory of operation								-	-	-	-
3.3.12.14.2 Perform maintenance testing								-	-	-	-
3.3.13 Heading Attitude Reference System (HARS)											
3.3.13.1 HARS Test Set TR: TO 33D3-9-165-1											
3.3.13.1.1 Operate								-	-	-	-
3.3.13.1.2 Isolate/repair Malfunctions								-	-	-	-
3.3.13.1.3 Calibrate								-	-	-	-
3.3.13.2 Scorsby Test Stand TR: TO 33D2-8-14-171											
3.3.13.2.1 Operate								-	-	-	-
3.3.13.2.2 Isolate/repair Malfunctions								-	-	-	-
3.3.13.3 3-Axis Table TR: TO 33D3-10-32-1											
3.3.13.3.1 Operate								-	-	-	-
3.3.13.3.2 Adjust								-	-	-	-
3.3.13.4 Displacement Gyro TR: TO 5A1-9-4-2											
3.3.13.4.1 Theory of operation								-	-	-	-
3.3.13.4.2 Perform maintenance testing								-	-	-	-
3.3.13.4.3 Isolate/repair Malfunctions								-	-	-	-
3.3.13.5 Electronic Control Amplifier TR: TO 5A1-9-4-2											

A-10 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
3.3.13.5.1 Theory of operation								-	-	-	-
3.3.13.5.2 Perform maintenance testing								-	-	-	-
3.3.13.5.3 Isolate/repair Malfunctions								-	-	-	-
3.3.13.6 Compass System Controller TR: TO 5A1-9-4-2											
3.3.13.6.1 Theory of operation								-	-	-	-
3.3.13.6.2 Perform maintenance testing								-	-	-	-
3.3.13.6.3 Isolate/repair Malfunctions								-	-	-	-
3.3.14 Flight Director System											
3.3.14.1 Flight Director Computer Test Set TR: TO 33D7-3-178-1											
3.3.14.1.1 Operate								-	-	-	-
3.3.14.1.2 Isolate/repair Malfunctions								-	-	-	-
3.3.14.1.3 Calibrate								-	-	-	-
3.3.14.2 Flight Director Computer TR: TO 5F5-8-7-2											
3.3.14.2.1 Theory of operation								-	-	-	-
3.3.14.2.2 Perform maintenance testing								-	-	-	-
3.3.14.2.3 Isolate/repair malfunctions								-	-	-	-
3.3.15 A-10 General Avionics Components											
3.3.15.1 Navigation Mode Select Panel TR: TO 8C21-18-2											
3.3.15.1.1 Test								-	-	-	-
3.3.15.1.2 Isolate/repair Malfunctions								-	-	-	-
3.3.15.2 Navigation Mode Select Relay Box TR: TO 8R3-172-2											
3.3.15.2.1 Test								-	-	-	-
3.3.15.2.2 Isolate/repair Malfunctions								-	-	-	-
3.3.15.3 Avionics Relay Box TR: TO 8R3-157-2											

A-10 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
3.3.15.3.1 Test								-	-	-	-
3.3.15.4 Antenna Select Control Panel Assembly TR: TO 8C21-2-2											
3.3.15.4.1 Test								-	-	-	-
3.3.15.4.2 Isolate/repair Malfunctions								-	-	-	-
3.3.15.5 "G" Meter TR: TO 5F2-28-32											
3.3.15.5.1 Test								-	-	-	-
3.3.15.6 Intercommunication Panel TR: TO 12R2-2AIC18-2											
3.3.15.6.1 Test								-	-	-	-
3.3.15.6.2 Isolate/repair Malfunctions								-	-	-	-
3.3.15.7 Time Signal Set (AN/TRC-177) TR: TO 39B3-39-2											
3.3.15.7.1 Test								-	-	-	-
3.3.15.7.2 Isolate/repair Malfunctions								-	-	-	-
3.3.15.8 Magnetic Azimuth Detector Simulator TR: TO 33D2-8-368-1											
3.3.15.8.1 Calibrate								-	-	-	-
3.3.15.8.2 Isolate/repair Malfunctions								-	-	-	-

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level	5 Skill Level	7 Skill Level	
								(1) Course	(1) CDC	(1) Course	(2) CDC
ATTACHMENT 4											
NOTE 1: All course requirements are trained in the 3-level resident wartime course. The 7-level in-residence course is not taught in wartime.											
NOTE 2: Users are responsible for annotating training references to identify current references pending STS revision											
NOTE 3: Items marked in columns 2a or 2b with a “*R” are optional core tasks for ANG and AFRC.											
NOTE 4: Address comments and recommended changes through the MAJCOM Functional Managers to the AETC Training Manager, DSN 736-7899.											
4 ATTACHMENT 4, B-1 TRAINING REQUIREMENTS											
4.1 B-1 GENERAL MAINTENANCE PROCEDURES											
4.1.1 Basic Interface Test Adapter Isolate/Repair Malfunctions											
4.1.2 Perform periodic inspections											
4.1.2.1 30 day	*							-	-	-	-
4.1.2.2 180 day		*						-	-	-	-
4.1.2.3 360 day								-	-	-	-
4.1.3 Perform nuclear hardness maintenance and inspections TR: Applicable LRU TO								2b	-	-	-
4.1.4 Emergency Shutdown								a	-	-	-
4.2 SOFTWARE SYSTEM											
4.2.1 Theory of system software functions TR: Use B-1 Specific TOs TR: Use B-1 Specific TOs											
4.2.1.1 Control & Support (C&S) Software											
4.2.1.1.1 Test Operating System (TOS)								-	-	-	-
4.2.1.1.2 Test Executive (TEX)								B	B	-	-
4.2.1.1.3 On-Line Compiler (OLC)								B	B	-	-
4.2.1.1.4 File Manager (FMX)								-	B	-	-
4.2.1.1.5 Change Analysis (CAP)								-	-	-	-
4.2.1.2 Test Software											
4.2.1.2.1 Automatic Test Equipment (ATE)											
4.2.1.2.1.1 Confidence Tests (CONF)								A	-	-	-
4.2.1.2.1.2 Diagnostic Tests (DIAG)								A	-	-	-
4.2.1.2.1.3 Alignment Tests (ALIN)								A	-	-	-
4.2.1.2.1.4 Interface Test Adapter (ITA)								-	-	-	-
4.2.1.2.1.5 Line Replaceable Unit (LRU)								A	-	-	-
4.2.1.2.1.6 Calibration Tests											

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
4.2.1.2.1.6.1 CALS								A	-	-	-
4.2.1.2.1.6.2 Portable Automatic Test Equipment Calibration (PATEC) ITA/Software								-	-	-	-
4.2.1.3 Utility programs											
4.2.1.3.1 Find Align								A	-	-	-
4.2.1.3.2 CALS Mods								-	-	-	-
4.2.2 Software procedures											
4.2.2.1 Execute software commands											
4.2.2.1.1 Control & Support Software											
4.2.2.1.1.1 TOS								-	-	-	-
4.2.2.1.1.2 TEX								2b	-	-	-
4.2.2.1.1.3 OLC								2b	-	-	-
4.2.2.1.1.4 FMX								-	-	-	-
4.2.2.1.1.5 CAP								-	-	-	-
4.2.2.1.2 Test Software											
4.2.2.1.2.1 ATE								2b	-	-	-
4.2.2.1.2.2 ITA								2b	-	-	-
4.2.2.1.2.3 LRU								2b	-	-	-
4.2.2.1.3 Utility programs											
4.2.2.1.3.1 Find Align								2b	-	-	-
4.2.2.1.3.2 CALS Mods								-	-	-	-
4.2.2.2 Use software commands to isolate faults								2b	-	-	-
4.3 B-1 COMMON TEST STATION COMPONENTS, DIGITAL (DIG) TR: TOs 33D7-3-256-1, 33D7-3-256-8-1, 33D7-33-194-1, 33D7-33-195-1											
4.3.1 Theory of operation											
4.3.1.1 Power and Control (P&C) Module											
4.3.1.1.1 Control system											
4.3.1.1.1.1 Disk Storage Units								A	B	-	-
4.3.1.1.1.2 Computer System								A	B	-	-
4.3.1.1.2 Power distribution system								B	B	-	-
4.3.1.1.3 Cooling system								A	B	-	-
4.3.1.2 Subinstrument Module (SIM)											

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
4.3.1.2.1 Power distribution system								B	B	-	-
4.3.1.2.2 Digital subsystem								A	B	-	-
4.3.1.2.3 Stimulus subsystem								A	A	-	-
4.3.1.2.4 Measurement subsystem								A	B	-	-
4.3.1.2.5 Switching subsystem								A	B	-	-
4.3.1.3 Self Test Adapter (STA)								A	B	-	-
4.3.1.4 Wire run list and wiring diagrams								A	-	-	-
4.3.2 Operate test station and associated equipment to:											
4.3.2.1 Load/Execute Application Programs								2b	-	-	-
4.3.2.2 Perform Turn-on procedure	*							2b	-	-	-
4.3.2.3 Perform Standby procedure	*							2b	-	-	-
4.3.2.4 Perform Shutdown procedure	*							-	-	-	-
4.3.2.5 Perform CONF	*							2b	-	-	-
4.3.2.6 Perform DIAG	*							2b	-	-	-
4.3.2.7 Perform ALIN	*							2b	-	-	-
4.3.2.8 Perform Calibration using:											
4.3.2.8.1 CALS								-	-	-	-
4.3.2.8.2 PATEC								-	-	-	-
4.3.2.9 Perform adjustments								2b	-	-	-
4.3.2.10 Isolate/repair malfunctions											
4.3.2.10.1 Power & Control Module											
4.3.2.10.1.1 Power Distribution								-	-	-	-
4.3.2.10.1.2 LRU Power/switching								-	-	-	-
4.3.2.10.1.3 Test Station Power								-	-	-	-
4.3.2.10.1.4 Cooling system								-	-	-	-
4.3.2.10.1.5 Control system								-	-	-	-
4.3.2.10.2 Subinstrument Module											
4.3.2.10.2.1 Digital Subsystem								-	-	-	-
4.3.2.10.2.2 Measurement Subsystem								-	-	-	-
4.3.2.10.2.3 Stimulus Subsystem								-	-	-	-
4.3.2.10.2.4 Switching Subsystem								-	-	-	-
4.3.2.10.2.5 Power Distribution								-	-	-	-

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
4.4 B-1 DIGITAL DEFENSIVE AUTOMATIC TEST EQUIPMENT (ATE) AUGMENTATION EQUIPMENT (DAAE) TR: TOs: 33D7-13-100-1, 33D7-13-100-8-1, 33D7-50-1028-1												
4.4.1 Theory of operation												
4.4.1.1 Power distribution.								-	A	-	-	
4.4.1.2 Test Module Adapter (TMA) Functional Test Group (FTG)								-	A	-	-	
4.4.1.3 Avionics Control Unit (ACU) FTG								-	A	-	-	
4.4.1.4 Control Interface Unit (CIU) FTG								-	A	-	-	
4.4.1.5 Advance Tracker Unit (ATU) FTG								-	A	-	-	
4.4.1.6 Emitter Simulator Processor (ESP) FTG								-	A	-	-	
4.4.1.7 Jammer Logic A, Jammer Logic B, Receiver Threshold Control (ABC) FTG								-	A	-	-	
4.4.1.8 Direction Finding Encoder (DFE) FTG								-	A	-	-	
4.4.1.9 Test Adapter Group (TAG)								-	A	-	-	
4.4.1.10 Cooling system								-	A	-	-	
4.4.2 Wire run list and wiring diagrams								-	A	-	-	
4.4.3 Peculiar ATLAS								-	A	-	-	
4.4.4 Operate test station and associated equipment to:												
4.4.4.1 Perform power-up/power-down procedures								-	-	-	-	
4.4.4.2 Perform CONF								-	-	-	-	
4.4.4.3 Perform DIAG								-	-	-	-	
4.4.4.4 Perform alignment								-	-	-	-	
4.4.4.5 Isolate/repair malfunctions								-	-	-	-	
4.5 Advanced Digital Test Station (ADTS) TR: TO 33D7-24-36-1												
4.5.1 Theory of Operations												

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
4.5.1.1 Power Control and Distribution Subsystem								A	B	-	-
4.5.1.2 UUT Power Subsystem								A	B	-	-
4.5.1.3 Digital Subsystem								A	B	-	-
4.5.1.4 Analog Subsystem								A	B	-	-
4.5.1.5 Computer Subsystem								A	B	-	-
4.5.1.6 Control Software Subsystem								A	B	-	-
4.5.1.7 Loads Subsystem								A	B	-	-
4.5.1.8 Interface Subsystem								A	B	-	-
4.5.2 Perform Power-up/Power-down Procedures	*							2b/-	-	-	-
4.5.3 Perform Emergency Shutdown								-	-	-	-
4.5.4 Perform Confidence Test	*							2b/-	-	-	-
4.5.5 Perform Interactive Test	*							2b/-	-	-	-
4.5.6 Functional Test								-	-	-	-
4.5.6.1 Perform Wire Verification Test (WVT)	*							2b/-	-	-	-
4.5.6.2 Perform Functional Verification Test (FVT)	*							2b/-	-	-	-
4.5.7 Isolate/Repair Malfunctions											
4.5.7.1 Power Control and Distribution Subsystem								-	-	-	-
4.5.7.2 UUT Power Subsystem								-	-	-	-
4.5.7.3 Digital Subsystem								-	-	-	-
4.5.7.4 Analog Subsystem								-	-	-	-
4.5.7.5 Computer Subsystem								-	-	-	-
4.5.7.6 Control Software Subsystem								-	-	-	-
4.5.7.7 Loads Subsystem								-	-	-	-
4.5.7.8 Interface Subsystem								-	-	-	-
4.5.8 Perform Preventative Maintenance Procedures	*							-	-	-	-
4.5.9 Perform Calibrations Procedures	*							-	-	-	-
4.6 B-1 DIG/ADTS LRU/TEST PROGRAM SET (TPS) MAINTENANCE											

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
4.6.1 10 Channel Proximity Switch Electronic Unit TR: TOs 8S-1-112, 8S-1-118-1, 33D7-61-98-1												
4.6.1.1 Theory of operation								-	-	-	-	
4.6.1.2 Operational check								-	-	-	-	
4.6.1.3 Isolate/repair malfunctions								-	-	-	-	
4.6.1.4 Calibrate TPS								-	-	-	-	
4.6.2 20 channel Proximity Switch Electronic Unit TR: TOs 8S-1-122, 8S-1-128-1, 33D7-50-1164-1												
4.6.2.1 Theory of operation								-	-	-	-	
4.6.2.2 Operational check								-	-	-	-	
4.6.2.3 Isolate/repair malfunctions								-	-	-	-	
4.6.2.4 Calibrate TPS								-	-	-	-	
4.6.3 Advance Tracking Unit (ATU) TR: TOs 12P3-2ALQ161-272, 12P3-2ALQ161-278-1, 33D7-50-1238-1												
4.6.3.1 Theory of operation												
4.6.3.1.1 TPS								-	-	-	-	
4.6.3.1.2 LRU								-	-	-	-	
4.6.3.2 Operational check								-	-	-	-	
4.6.3.3 Isolate/repair malfunctions												
4.6.3.3.1 TPS								-	-	-	-	
4.6.3.3.2 LRU								-	-	-	-	
4.6.4 Windshield Ice/Air Temperature Controller TR: TOs 8D1-12-27-2, 8D1-12-27-8-1, 33D7-50-1162-1												
4.6.4.1 Theory of operation								-	-	-	-	
4.6.4.2 Operational check								-	-	-	-	
4.6.4.3 Isolate/repair malfunctions								-	-	-	-	
4.6.5 Aural Tone Generator TR: TOs 8D15-10-8-2, 8D15-10-8-8-1, 33D7-50-810-1												
4.6.5.1 Theory of operation								-	-	-	-	
4.6.5.2 Operational check								-	-	-	-	
4.6.5.3 Isolate/repair malfunctions								-	-	-	-	

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
4.6.6 Bomb Navigation Auxiliary Control TR: TOs 11B12-6-10-2, 11B12-6-10-8-1, 33D3-4-157-1												
4.6.6.1 Theory of operation								-	-	-	-	
4.6.6.2 Operational check								-	-	-	-	
4.6.6.3 Isolate/repair malfunctions								-	-	-	-	
4.6.7 Bomb Navigation Control TR: TOs 11B12-6-9-2, 11B12-6-9-8-1, 33D3-4-157-1												
4.6.7.1 Theory of operation								-	-	-	-	
4.6.7.2 Operational check								-	-	-	-	
4.6.7.3 Isolate/repair malfunctions								-	-	-	-	
4.6.8 C and D Power Supply TR: TOs 11B12-30-3-2, 11B12-30-3-8-1, 33D3-4-157-1												
4.6.8.1 Theory of operation								-	-	-	-	
4.6.8.2 Operational check								-	-	-	-	
4.6.8.3 Isolate/repair malfunctions								-	-	-	-	
4.6.9 CITS Control and Display Panel (CCD) TR: TOs 5A13-5-21-2, 5A13-5-21-8-1, 33D7-50-783-1												
4.6.9.1 Theory of operation								-	-	-	-	
4.6.9.2 Operational check								-	-	-	-	
4.6.9.3 Isolate/repair malfunctions								-	-	-	-	
4.6.10 Control Interface Unit (CIU) TR: TOs 12P3-2ALQ161-252, 12P3-ALQ161-258-1, 33D7-50-1236-1												
4.6.10.1 Theory of operation												
4.6.10.1.1 TPS								-	-	-	-	
4.6.10.1.2 LRU								-	-	-	-	
4.6.10.2 Operational check								-	-	-	-	
4.6.10.3 Isolate/repair malfunctions												
4.6.10.3.1 TPS								-	-	-	-	
4.6.10.3.2 LRU								-	-	-	-	

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
4.6.11 Coolant Temperature Controller TR: TOs 15A5-2-27-2, 15A5-2-27-8-1, 33D7-50-835-1												
4.6.11.1 Theory of operation								-	-	-	-	
4.6.11.2 Operational check								-	-	-	-	
4.6.11.3 Isolate/repair malfunctions								-	-	-	-	
4.6.12 Crew Aft Air Temperature Controller TR: TOs 15A1-3-43-2, 15A1-3-43-8-1, 33D7-50-837-1												
4.6.12.1 Theory of operation								-	-	-	-	
4.6.12.2 Operational check								-	-	-	-	
4.6.12.3 Isolate/repair malfunctions								-	-	-	-	
4.6.13 Direction Finding (DF) Encoder TR: TOs 12P3-2ALQ161-362, 12P3-2ALQ161-368-1, 33D7-50-1239-1												
4.6.13.1 Theory of operation												
4.6.13.1.1 TPS								-	-	-	-	
4.6.13.1.2 LRU								-	-	-	-	
4.6.13.2 Operational check								-	-	-	-	
4.6.13.3 Isolate/repair malfunctions												
4.6.13.3.1 TPS								-	-	-	-	
4.6.13.3.2 LRU								-	-	-	-	
4.6.14 Digital Fuel Tank Quantity Select Indicator												
4.6.14.1 Theory of operation								-	-	-	-	
4.6.14.2 Operational check								-	-	-	-	
4.6.14.3 Isolate/repair malfunctions								-	-	-	-	
4.6.15 Defensive System Operator (DSO) Power Panel TR: TOs 11B10-25-7-2, 11B10-25-7-8-1, 33D3-4-157-1												
4.6.15.1 Theory of operation								-	-	-	-	
4.6.15.2 Operational check								-	-	-	-	
4.6.15.3 Isolate/repair malfunctions								-	-	-	-	

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
4.6.16 Electrical Multiplexing (EMUX) CITS Interface Box TR: TOs 5F6-6-4-2, 5F6-6-4-8-1, 33D7-50-1024-1												
4.6.16.1 Theory of operation								-	-	-	-	
4.6.16.2 Operational check								-	-	-	-	
4.6.16.3 Isolate/repair malfunctions								-	-	-	-	
4.6.17 Engine Instrument Signal Conditioner TR: TOs 5E1-2-13-2, 5E1-2-13-8-1, 33D7-50-1163-1												
4.6.17.1 Theory of operation								-	-	-	-	
4.6.17.2 Operational check								-	-	-	-	
4.6.17.3 Isolate/repair malfunctions								-	-	-	-	
4.6.18 External Fuel Tank Indicator TR: TOs 5L6-3-91-2, 5L6-3-91-8-1, 33D7-50-872-1												
4.6.18.1 Theory of operation								-	-	-	-	
4.6.18.2 Operational check								-	-	-	-	
4.6.18.3 Isolate/repair malfunctions								-	-	-	-	
4.6.19 Fuel Center of Gravity Management System (FCGMS) Center of Gravity and Total Fuel Indicator TR: TOs 5L1-3-12-2, 5L1-3-12-8-1, 33D7-50-1025-1												
4.6.19.1 Theory of operation								-	-	-	-	
4.6.19.2 Operational check								-	-	-	-	
4.6.19.3 Isolate/repair malfunctions								-	-	-	-	
4.6.20 FCGMS Intermediate Device TR: TOs 5L13-2-26-2, 5L13-2-26-8-1, 33D7-50-786-1												
4.6.20.1 Theory of operation								-	-	-	-	
4.6.20.2 Operational check								-	-	-	-	
4.6.20.3 Isolate/repair malfunctions								-	-	-	-	
4.6.20.4 Calibrate TPS								-	-	-	-	
4.6.20.5 Load/Verify OFP								-	-	-	-	
4.6.21 Fill Controller and Fuel Quantity Indicator												

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
4.6.21.1 Theory of operation								-	-	-	-
4.6.21.2 Operational check								-	-	-	-
4.6.21.3 Isolate/repair malfunctions								-	-	-	-
4.6.22 Gyro Stabilization System (GSS) Electronic Compensator Amplifier (ECA) Panel TR: TOs 5N2-3-12-2, 5N2-3-12-8-1, 33D7-50-826-1											
4.6.22.1 Theory of operation								-	-	-	-
4.6.22.2 Operational check								-	-	-	-
4.6.22.3 Isolate/repair malfunctions								-	-	-	-
4.6.23 Hinge Moment Limiter Controller TR: TOs 5A9-8-9-2, 5A9-8-9-8-1, 33D7-50-784-1											
4.6.23.1 Theory of operation								-	-	-	-
4.6.23.2 Operational check								-	-	-	-
4.6.23.3 Isolate/repair malfunctions								-	-	-	-
4.6.24 Hydraulic Pressure Signal Conditioner TR: TOs 33C2-86-2, 33C2-86-8-1, 33D7-5-879-1											
4.6.24.1 Theory of operation								-	-	-	-
4.6.24.2 Operational check								-	-	-	-
4.6.24.3 Isolate/repair malfunctions								-	-	-	-
4.6.25 Individual Fuel Tank Quantity Indicator TR: TOs 5L6-3-92-2, 5L6-3-92-8-1, 33D7-50-874-1											
4.6.25.1 Theory of operation								-	-	-	-
4.6.25.2 Operational check								-	-	-	-
4.6.25.3 Isolate/repair malfunctions								-	-	-	-
4.6.26 Integrated Keyer Control (IKB) TR: TOs 11B10-25-8-2, 11B10-25-8-8-1, 33D3-4-157-1											
4.6.26.1 Theory of operation								-	-	-	-
4.6.26.2 Operational check	*							-	-	-	-
4.6.26.3 Isolate/repair malfunctions								-	-	-	-

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
4.6.27 Jammer Logic A (JLA) TR: TOs 12P3-2ALQ161-232, 12P3-2ALQ161-238-1, 33D7-50-1234-1												
4.6.27.1 Theory of operation												
4.6.27.1.1 TPS								-	-	-	-	
4.6.27.1.2 LRU								-	-	-	-	
4.6.27.2 Operational check								-	-	-	-	
4.6.27.3 Isolate/repair malfunctions												
4.6.27.3.1 TPS								-	-	-	-	
4.6.27.3.2 LRU								-	-	-	-	
4.6.28 Jammer Logic B (JLB) TR: TOs 12P3-2ALQ161-242, 12P3-2ALQ161-248-1, 33D7-50-1235-1												
4.6.28.1 Theory of operation												
4.6.28.1.1 TPS								-	-	-	-	
4.6.28.1.2 LRU								-	-	-	-	
4.6.28.2 Operational Check								-	-	-	-	
4.6.28.3 Isolate/repair malfunctions												
4.6.28.3.1 TPS								-	-	-	-	
4.6.28.3.2 LRU								-	-	-	-	
4.6.29 Radar Altimeter Control Display TR: TOs 11B89-2-3-2, 11B89-2-3-8-1, 33D3-4-157-1												
4.6.29.1 Theory of operation								-	-	-	-	
4.6.29.2 Operational check								-	-	-	-	
4.6.29.3 Isolate/repair malfunctions								-	-	-	-	
4.6.30 Radar Set Control TR: TOs 11B12-29-4-2, 11B12-29-4-8-1, 33D3-4-157-1												
4.6.30.1 Theory of operation								-	-	-	-	
4.6.30.2 Operational check								-	-	-	-	
4.6.30.3 Isolate/repair malfunctions								-	-	-	-	
4.6.31 Receiver Threshold Control (RTC) TR: TOs 12P3-2ALQ161-262, 12P3-2ALQ161-268-1, 33D7-50-1237-1												
4.6.31.1 Theory of operation												

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
4.6.31.1.1 TPS								-	-	-	-
4.6.31.1.2 LRU								-	-	-	-
4.6.31.2 Operational check								-	-	-	-
4.6.31.3 Isolate/repair malfunctions											
4.6.31.3.1 TPS								-	-	-	-
4.6.31.3.2 LRU								-	-	-	-
4.6.32 Radio Frequency Surveillance/ Electronic Countermeasure (RFS/ECM) Control Panel TR: TOs 12P3-4-86-2, 12P3-4-86-8-1, 33D3-4-157-1											
4.6.32.1 Theory of operation								-	-	-	-
4.6.32.2 Operational check								2b	-	-	-
4.6.32.3 Isolate/repair malfunctions								-	-	-	-
4.6.33 Surface Positioning Signal Conditioner TR: TOs 5F22-29-2, 5F22-29-8-1, 33D7-50-803-1											
4.6.33.1 Theory of operation								-	-	-	-
4.6.33.2 Operational check								-	-	-	-
4.6.33.3 Isolate/repair malfunctions								-	-	-	-
4.6.34 Terrain Following (TF) TR: TOs 5A8-21-3-8-1, 33D7-50-1177-1											
4.6.34.1 Theory of operation								-	-	-	-
4.6.34.2 Operational check								-	-	-	-
4.6.34.3 Isolate/repair malfunctions								-	-	-	-
4.6.35 TF Radar (TFR) Control TR: TOs 11B12-25-3-2, 11B12-25-3-8-1, 33D3-4-157-1											
4.6.35.1 Theory of operation								-	-	-	-
4.6.35.2 Operational check								-	-	-	-
4.6.35.3 Isolate/repair malfunctions								-	-	-	-
4.6.36 Thermal Management Controller TR: TOs 15A8-3-22-2, 15A8-3-22-8-1, 33D7-50-836-1											
4.6.36.1 Theory of operation								-	-	-	-
4.6.36.2 Operational check								-	-	-	-

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
4.6.36.3 Isolate/repair malfunctions								-	-	-	-
4.6.37 Tracking Handle TR: TOs 11B12-8-5-2, 11B12-8-5-8-1, 33D3-4- 157-1											
4.6.37.1 Theory of operation								-	-	-	-
4.6.37.2 Operational check								-	-	-	-
4.6.37.3 Isolate/repair malfunctions								-	-	-	-
4.7 B-1 DIGITAL ANALOG VIDEO (DAV) TEST STATION TR: TOs 33A1-5-486-1, 33D7- 24-23-1, 33D7-24-23-8-1, 33D7-33-197-11, 33D7-33- 198-1											
4.7.1 Theory of operation											
4.7.1.1 Video/Pneumatic Module								-	B	-	-
4.7.1.2 5.6 KHz Power Source Module								-	B	-	-
4.7.2 Wire run list and wiring diagrams								-	-	-	-
4.7.3 Peculiar ATLAS								-	B	-	-
4.7.4 Operate test station and associated equipment to:											
4.7.4.1 Perform Turn-on Procedure	*							-	-	-	-
4.7.4.2 Perform Standby Procedure	*							-	-	-	-
4.7.4.3 Perform Shutdown Procedure	*							-	-	-	-
4.7.4.4 Perform CONF	*							-	-	-	-
4.7.4.5 Perform DIAG	*							-	-	-	-
4.7.4.6 Perform ALIN	*							-	-	-	-
4.7.4.7 Calibration Tests											
4.7.4.7.1 CALS		*						-	-	-	-
4.7.4.7.2 Portable Automatic Test Equipment Calibration (PATEC) ITA/Software								-	-	-	-
4.7.4.8 Perform adjustments	*							-	-	-	-
4.7.4.9 Isolate/repair malfunctions											
4.7.4.9.1 Video/Pneumatic Module								-	-	-	-
4.7.4.9.2 5.6 KHz Power Source Module								-	-	-	-
4.7.4.10 Calibrate 5.6KHz Power Source Module								-	-	-	-

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
4.8 B-1 DAV/ADTS LRU/TPS MAINTENANCE												
4.8.1 Automatic Flight Control System (AFCS)/Surface Movement Control System (SMCS) Logic Controller TR: TOs 5A9-8-7-2, 5A9-8-7-8-1, 33D7-50-788-1												
4.8.1.1 Theory of operation								-	-	-	-	
4.8.1.2 Operational check								-	-	-	-	
4.8.1.3 Isolate/repair malfunctions								-	-	-	-	
4.8.2 AFCS/Trim Controller TR: TOs 5A9-8-11-2, 5A9-8-11-8-1, 33D7-50-820-1												
4.8.2.1 Theory of operation								-	-	-	-	
4.8.2.2 Operational check								-	-	-	-	
4.8.2.3 Isolate/repair malfunctions								-	-	-	-	
4.8.3 Airspeed Mach Number Indicator TR: TOs 5F8-2-73-3, 5F8-2-73-8-1, 33D7-50-812-1												
4.8.3.1 Theory of operation								-	-	-	-	
4.8.3.2 Operational check								-	-	-	-	
4.8.3.3 Isolate/repair malfunctions								-	-	-	-	
4.8.4 Altitude-Vertical Velocity Indicator (AVVI) TR: TOs 5N8-11-3-2, 5N8-11-3-8-1, 33D7-50-811-1												
4.8.4.1 Theory of operation								-	-	-	-	
4.8.4.2 Operational check								-	-	-	-	
4.8.4.3 Isolate/repair malfunctions								-	-	-	-	
4.8.5 Antenna Memory Module												
4.8.5.1 Theory of operation												
4.8.5.1.1 TPS								-	-	-	-	
4.8.5.1.2 LRU								-	-	-	-	
4.8.5.2 Operational check								-	-	-	-	
4.8.5.3 Reprogram												
4.8.5.3.1 TPS								-	-	-	-	
4.8.5.3.2 LRU								-	-	-	-	

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
4.8.6 Avionics Computer Control (ACC) TR: TOs 11B10-25-5-2, 11B10-25-5-8-1, 33D7-50-1113-1												
4.8.6.1 Theory of operation								-	-	-	-	
4.8.6.2 Operational check								-	-	-	-	
4.8.6.3 Isolate/repair malfunctions								-	-	-	-	
4.8.7 Beam Steering Controller TR: TOs 12P1-4-35-2, 12P1-4-35-8-1, 33D7-50-1206-1												
4.8.7.1 Theory of operation												
4.8.7.1.1 TPS								-	-	-	-	
4.8.7.1.2 LRU								-	-	-	-	
4.8.7.2 Operational check								-	-	-	-	
4.8.7.3 Isolate/repair malfunctions												
4.8.7.3.1 TPS								-	-	-	-	
4.8.7.3.2 LRU								-	-	-	-	
4.8.8 Central Air Data Computer (CADC) TR: TOs 5F5-4-35-2, 5F5-4-35-8-1, 33D7-50-809-1												
4.8.8.1 Theory of operation								-	-	-	-	
4.8.8.2 Operational check								-	-	-	-	
4.8.8.3 Isolate/repair malfunctions								-	-	-	-	
4.8.9 Central Power Supply TR: TOs 12P3-2ALQ161-162, 12P3-2ALQ161-158-1, 33D7-50-1315-1												
4.8.9.1 Theory of operation												
4.8.9.1.1 TPS								-	-	-	-	
4.8.9.1.2 LRU								-	-	-	-	
4.8.9.2 Operational check								-	-	-	-	
4.8.9.3 Isolate/repair malfunctions												
4.8.9.3.1 TPS								-	-	-	-	
4.8.9.3.2 LRU								-	-	-	-	
4.8.10 CITS Data Acquisition Unit (DAU) TR: TOs 5F22-32-2, 5F22-32-8-1, 33D7-50-1264-1												
4.8.10.1 Theory of operation								-	-	-	-	
4.8.10.2 Operational check								-	-	-	-	

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
4.8.10.3 Isolate/repair malfunctions								-	-	-	-
4.8.11 CITS Data Conversion Unit (DCU) TR: TOs 5F22-30-2, 5F22-30-8-1, 33D7-50-871-1											
4.8.11.1 Theory of operation								-	-	-	-
4.8.11.2 Operational check								-	-	-	-
4.8.11.3 Isolate/repair malfunctions								-	-	-	-
4.8.12 Countermeasure (CM) Dispense Control TR: TOs 12P3-4-87-2, 12P3-4-87-8-1, 33D7-13-101-1											
4.8.12.1 Theory of operation								-	-	-	-
4.8.12.2 Operational check								-	-	-	-
4.8.12.3 Isolate/repair malfunctions								-	-	-	-
4.8.13 Constant Speed Drive (CSD) TR: TOs 35CA17-19-2, 35CA-17-19-8-1											
4.8.13.1 Theory of operation								-	-	-	-
4.8.13.2 Operational check								-	-	-	-
4.8.13.3 Isolate/repair malfunctions								-	-	-	-
4.8.14 Conventional Station Logic Unit (SLU) TR: TOs 11B47-12-5-2, 11B47-12-5-8-1, 33D7-61-103-1											
4.8.14.1 Theory of operation								-	-	-	-
4.8.14.2 Operational check								-	-	-	-
4.8.14.3 Isolate/repair malfunctions								-	-	-	-
4.8.15 Core RPM and Nozzle Indicator TR: TOs 5L6-2-97-2, 5L6-2-97-8-1, 33D7-50-813-1											
4.8.15.1 Theory of operation								-	-	-	-
4.8.15.2 Operational check								-	-	-	-
4.8.15.3 Isolate/repair malfunctions								-	-	-	-
4.8.16 Digital Computer (DC) TR: TOs 11B10-7-9-2, 11B10-7-9-8-1, 33D7-3-273-1											
4.8.16.1 Theory of operation								-	-	-	-
4.8.16.2 Operational check								-	-	-	-
4.8.16.3 Isolate/repair malfunctions								-	-	-	-

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
4.8.17 DTUC Transmitter Control TR: TOs 11B10-25-2-2, 1B10-25-2-38-1, 33D7-50- 1111-1												
4.8.17.1 Theory of operation								-	-	-	-	
4.8.17.2 Operational check								-	-	-	-	
4.8.17.3 Isolate/repair malfunctions								-	-	-	-	
4.8.18 Electronic Beamformer Unit (EBU) Bands 6, 7, 8 TR: TOs 12P3-2ALQ161- 312, 12P3-2ALQ161-318-1, 33D7-50-1306-1												
4.8.18.1 Theory of operation								-	-	-	-	
4.8.18.2 Operational check								-	-	-	-	
4.8.18.3 Isolate/repair malfunctions								-	-	-	-	
4.8.19 Electronic Controller Secondary Power System (SPS) TR: TOs 8D3-3-3-2, 8D3-3- 3-8-1, 33D7-50-1077-1												
4.8.19.1 Theory of operation								-	-	-	-	
4.8.19.2 Operational check								-	-	-	-	
4.8.19.3 Isolate/repair malfunctions								-	-	-	-	
4.8.20 Electronic Display Unit (EDU) TR: TOs 11B10-7-10-2, 11B10-7-10-8-1, 33D7-77- 65-1												
4.8.20.1 Theory of operation								-	-	-	-	
4.8.20.2 Operational check								-	-	-	-	
4.8.20.3 Isolate/repair malfunctions								-	-	-	-	
4.8.21 Electronic Marker Generator (EMG) TR: TOs 11B10-25-6, 11B10-25-6-8-1, 33D7-50- 1244-1												
4.8.21.1 Theory of operation								-	-	-	-	
4.8.21.2 Operational check								-	-	-	-	
4.8.21.3 Isolate/repair malfunctions								-	-	-	-	
4.8.22 Wheel Well Power Supply TR: TOs 12P3-2ALQ161- 172, 12P3-2ALQ161-158-1, 33D7-50-1316-1												
4.8.22.1 Theory of operation												

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
4.8.22.1.1 TPS								-	-	-	-
4.8.22.1.2 LRU								-	-	-	-
4.8.22.2 Operational check								-	-	-	-
4.8.22.3 Isolate/repair malfunctions											
4.8.22.3.1 TPS								-	-	-	-
4.8.22.3.2 LRU								-	-	-	-
4.8.23 Electronic Signal Amplifier (ESA) TR: TOs 12P1-4-40-2, 12P1-4-40-8-1, 33D7-50-1501-1											
4.8.23.1 Theory of operation								-	-	-	-
4.8.23.2 Operational check								-	-	-	-
4.8.23.3 Isolate/repair malfunctions								-	-	-	-
4.8.24 Electrical Multiplexing (EMUX) Controller TR: TOs 5F27-2-2, 5F27-2-8-1, 33D7-50-827-1											
4.8.24.1 Theory of operation								-	-	-	-
4.8.24.2 Operational check								-	-	-	-
4.8.24.3 Isolate/repair malfunctions								-	-	-	-
4.8.24.4 Load/Verify OFF								-	-	-	-
4.8.25 EMUX Digital Remote Terminal (EMUX/DRT) TR: TOs 5A9-8-8-2, 5A9-8-8-8-1, 33D7-50-825-1											
4.8.25.1 Theory of operation								-	-	-	-
4.8.25.2 Operational check								-	-	-	-
4.8.25.3 Isolate/repair malfunctions								-	-	-	-
4.8.26 Engine Fuel Flow Indicator TR: TOs 5L6-2-67-2, 5L6-2-67-8-1, 33D7-50-1023-1											
4.8.26.1 Theory of operation								-	-	-	-
4.8.26.2 Operational check								-	-	-	-
4.8.26.3 Isolate/repair malfunctions								-	-	-	-
4.8.27 Engine Power Level Indicator TR: TOs 5L6-2-67-2, 5L6-2-67-8-2, 33D7-50-816-1											
4.8.27.1 Theory of operation								-	-	-	-
4.8.27.2 Operational check								-	-	-	-
4.8.27.3 Isolate/repair malfunctions								-	-	-	-

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
4.8.28 Engine Temperature Indicator TR: TOs 5L6-2-67-2, 5L6-2-67-8-5, 33D7-50-888-1												
4.8.28.1 Theory of operation								-	-	-	-	
4.8.28.2 Operational check								-	-	-	-	
4.8.28.3 Isolate/repair malfunctions								-	-	-	-	
4.8.29 Electrical Power generation System (EPGS) Generator Control Unit (GCU) TR: TOs 8C3-5-4-2, 8C3-5-4-8-1, 8C7-2-53-1, 33D7-50-1608-1												
4.8.29.1 Theory of operation								-	-	-	-	
4.8.29.2 Operational check								-	-	-	-	
4.8.29.3 Isolate/repair malfunctions								-	-	-	-	
4.8.30 Fan RPM Indicator TR: TOs 5L6-2-67-2, 5L6-2-67-8-3, 33D7-50-818-1												
4.8.30.1 Theory of operation								-	-	-	-	
4.8.30.2 Operational check								-	-	-	-	
4.8.30.3 Isolate/repair malfunctions								-	-	-	-	
4.8.31 Flap/Slat Controller TR: TOs 5A9-8-12-2, 5A9-8-12-8-1, 33D7-50-819-1												
4.8.31.1 Theory of operation								-	-	-	-	
4.8.31.2 Operational check								-	-	-	-	
4.8.31.3 Isolate/repair malfunctions								-	-	-	-	
4.8.32 Flight Director Computer Monitor (FDCM) TR: TOs 5N5-13-20-2, 5N13-13-20-8-1, 33D7-50-1026-1												
4.8.32.1 Theory of operation								-	-	-	-	
4.8.32.2 Operational check								-	-	-	-	
4.8.32.3 Isolate/repair malfunctions								-	-	-	-	
4.8.33 Flight Instruments Signal Conditioner (FISC) TR: TOs 5F22-26-2, 5F22-26-8-1, 33D7-50-782-1												
4.8.33.1 Theory of operation								-	-	-	-	
4.8.33.2 Operational check								-	-	-	-	
4.8.33.3 Isolate/repair malfunctions								-	-	-	-	

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC	
4.8.34 GSS Electronic Control Amplifier TR: TOs 5N2-3-12-2, 5N2-3-12-8-1, 33D7-50-826-1												
4.8.34.1 Theory of operation								-	-	-	-	
4.8.34.2 Operational check								-	-	-	-	
4.8.34.3 Isolate/repair malfunctions								-	-	-	-	
4.8.35 Hydraulic Fluid Temperature Signal Conditioner TR: TOs 15A8-5-83-2, 15A8-5-83-8-1, 33D7-50-1178-1												
4.8.35.1 Theory of operation								-	-	-	-	
4.8.35.2 Operational check								-	-	-	-	
4.8.35.3 Isolate/repair malfunctions								-	-	-	-	
4.8.36 Hydraulic Reservoir Fluid Quantity Signal Conditioner TR: TOs 5F22-27-2, 5F22-27-8-1, 33D7-50-824-1												
4.8.36.1 Theory of operation								-	-	-	-	
4.8.36.2 Operational check								-	-	-	-	
4.8.36.3 Isolate/repair malfunctions								-	-	-	-	
4.8.36.4 Calibrate TPS								-	-	-	-	
4.8.37 Main Aircraft System Integration Panel (SIP) TR: TOs 8C21-35-2, 8C21-35-8-1, 33D7-50-1292-1												
4.8.37.1 Theory of operation								-	-	-	-	
4.8.37.2 Operational check								-	-	-	-	
4.8.37.3 Isolate/repair malfunctions								-	-	-	-	
4.8.38 Main Flight Station Caution Panel TR: TOs 8D10-7-16-2, 8D10-7-16-8-1, 33D7-50-890-1												
4.8.38.1 Theory of operation								-	-	-	-	
4.8.38.2 Operational check								-	-	-	-	
4.8.38.3 Isolate/repair malfunctions								-	-	-	-	
4.8.39 Memory Storage Unit (MSU) TR: TOs 11B10-25-4-2, 11B10-25-4-8-1, 33D7-50-1112-1												
4.8.39.1 Theory of operation								-	-	-	-	
4.8.39.2 Operational check								-	-	-	-	

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
4.8.39.3 Isolate/repair malfunctions								-	-	-	-
4.8.40 Multifunction Display Indicator (MFD) TR: TOs 11B21-5-4-2, 11B21-5-4-28-1, 33D7-77-66-1											
4.8.40.1 Theory of operation								-	-	-	-
4.8.40.2 Operational check								-	-	-	-
4.8.40.3 Isolate/repair malfunctions								-	-	-	-
4.8.41 Oil Pressure and Quantity Indicator TR: TOs 5L6-3-97-2, 5L6-3-97-8-1, 33D7-50-817-1											
4.8.41.1 Theory of operation								-	-	-	-
4.8.41.2 Operational check								-	-	-	-
4.8.41.3 Isolate/repair malfunctions								-	-	-	-
4.8.42 Radar Data Terminal/Signal Data Converter (RDT/SDC) TR: TOs 11B13-4-11-2, 11B13-4-11-8-1, 33D7-17-75-1											
4.8.42.1 Theory of operation								-	-	-	-
4.8.42.2 Operational check								-	-	-	-
4.8.42.3 Isolate/repair malfunctions								-	-	-	-
4.8.43 Radar Target Indicator (RTI) TR: TOs 12P1-4-29-2, 12P1-4-29-8-1, 33D7-44-258-1											
4.8.43.1 Theory of operation								-	-	-	-
4.8.43.2 Operational check								-	-	-	-
4.8.43.3 Isolate/repair malfunctions								-	-	-	-
4.8.44 Radar Video-Signal Processor (RVSP) TR: TOs 12P1-4-34-2, 12P1-4-34-8-1, 33D7-44-257-1											
4.8.44.1 Theory of operation											
4.8.44.1.1 TPS								-	-	-	-
4.8.44.1.2 LRU								-	-	-	-
4.8.44.2 Operational check								-	-	-	-
4.8.44.3 Isolate/repair malfunctions											
4.8.44.3.1 TPS								-	-	-	-
4.8.44.3.2 LRU								-	-	-	-

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
4.8.45 Rotary Launcher Electronic Control Amplifier TR: TOs 8C3-16-14-2, 8C3-16-14-4											
4.8.45.1 Theory of operation								-	-	-	-
4.8.45.2 Operational check								-	-	-	-
4.8.45.3 Isolate/repair malfunctions								-	-	-	-
4.8.46 Stability and Control Augmentation System (SCAS) Controller TR: TOs 5A9-8-10-2, 5A9-8-10-8-1, 33D7-50-804-1											
4.8.46.1 Theory of operation								-	-	-	-
4.8.46.2 Operational check	*							-	-	-	-
4.8.46.3 Isolate/repair malfunctions								-	-	-	-
4.8.47 Sector Power Supply TR: TOs 12P3-2ALQ161-152, 12P3-2ALQ161-158-1, 33D7-50-1314-1											
4.8.47.1 Theory of operation											
4.8.47.1.1 TPS								-	-	-	-
4.8.47.1.2 LRU								-	-	-	-
4.8.47.2 Operational check								-	-	-	-
4.8.47.3 Isolate/repair malfunctions											
4.8.47.3.1 TPS								-	-	-	-
4.8.47.3.2 LRU								-	-	-	-
4.8.48 Serial Digital Multiplex Assembly (SDMA) TR: TOs 5F27-3-2, 5F27-3-8-1, 33D7-50-891-1											
4.8.48.1 Theory of operation								-	-	-	-
4.8.48.2 Operational check								-	-	-	-
4.8.48.3 Isolate/repair malfunctions								-	-	-	-
4.8.49 Side Window Defogger TR: TOs 8D1-12-28-2, 8D1-12-28-8-1, 33D7-50-1208-1											
4.8.49.1 Theory of operation								-	-	-	-
4.8.49.2 Operational check								-	-	-	-
4.8.49.3 Isolate/repair malfunctions								-	-	-	-
4.8.50 Spoiler Controller TR: TOs 8C3-18-6-2, 8C3-18-6-8-1, 33D7-50-821-1											
4.8.50.1 Theory of operation								-	-	-	-

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
4.8.50.2 Operational check								-	-	-	-
4.8.50.3 Isolate/repair malfunctions								-	-	-	-
4.8.51 Signal Data Converter/ Crash Data Recorder (SDC/CDR) TR: TOs 5F1-7-5-2, 5F1-7-5-8-1, 33D7-50-1167-1											
4.8.51.1 Theory of operation								-	-	-	-
4.8.51.2 Operational check								-	-	-	-
4.8.51.3 Isolate/repair malfunctions								-	-	-	-
4.8.52 Thrust Control Unit (TCU), engine TR: TOs 2JA8-28-2, 2JA8-28-8-1, 33D7-50-785-1											
4.8.52.1 Theory of operation								-	-	-	-
4.8.52.2 Operational check								-	-	-	-
4.8.52.3 Isolate/repair malfunctions								-	-	-	-
4.8.53 Total Fuel Rate Indicator TR: TOs 5L6-2-66-2, 5L6-2-66-8-1, 33D7-50-814-1											
4.8.53.1 Theory of operation								-	-	-	-
4.8.53.2 Operational check								-	-	-	-
4.8.53.3 Isolate/repair malfunctions								-	-	-	-
4.8.54 Vertical Situation Display/Digital Electronics Unit (VSD/DEU) TR: TOs 5N29-17-2, 5N29-17-8-1, 33D7-50-781-1											
4.8.54.1 Theory of operation								-	-	-	-
4.8.54.2 Operational check								-	-	-	-
4.8.54.3 Isolate/repair malfunctions								-	-	-	-
4.8.55 Vertical Situation Display Indicator (VSDI) TR: TOs 5N29-16-2, 5N29-16-8-1, 33D7-50-780-1											
4.8.55.1 Theory of operation								-	-	-	-
4.8.55.2 Operational check		*						-	-	-	-
4.8.55.3 Isolate/repair malfunctions								-	-	-	-

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
4.9 B-1 RADAR ELECTRONIC WAR FARE (R/EW) TEST STATION TR: TOs 33A1-7-261-1, 33A1-8-941-1, 33D7-10-129-11-3, 33D7-44-251-1, 33D7-44-251-8-1, 33D7-33-196-1,33DA52-21-11											
4.9.1 Theory of operation of RF Module											
4.9.1.1 LRU DC power generation and Switching								-	B	-	-
4.9.1.2 RF Stimulus								-	B	-	-
4.9.1.3 RF measurement								-	B	-	-
4.9.1.4 Phase Noise Analyzer								-	-	-	-
4.9.2 Wire run list and wiring diagrams								-	-	-	-
4.9.3 Peculiar ATLAS								-	B	-	-
4.9.4 Operate test station and associated equipment to:											
4.9.4.1 Perform Turn-on Procedure	*							-	-	-	-
4.9.4.2 Perform Standby Procedure	*							-	-	-	-
4.9.4.3 Perform Shutdown Procedure	*										
4.9.4.4 Perform CONF	*							-	-	-	-
4.9.4.5 Perform DIAG	*							-	-	-	-
4.9.4.6 Perform ALIN	*							-	-	-	-
4.9.4.7 Perform adjustments											
4.9.4.7.1 Calibration Tests								-	-	-	-
4.9.4.7.2 CALS								-	-	-	-
4.9.4.7.3 Portable Automatic Test Equipment Calibration (PATEC) ITA/Software								-	-	-	-
4.9.4.8 Perform Declass								-	-	-	-
4.9.5 Isolate/repair malfunctions											
4.9.5.1 LRU DC power generation and switching								-	-	-	-
4.9.5.2 RF Stimulus								-	-	-	-
4.9.5.3 RF measurement								-	-	-	-
4.9.5.4 Phase Noise Analyzer								-	-	-	-

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
4.10 B-1 RADIO FREQUENCY (RF) DEFENSIVE AUTOMATIC TEST EQUIPMENT (ATE) AUGMENTATION EQUIPMENT (DAAE) TR: TOs 33D7-13-99-1, 33D7-13-99-8-1, 33D7-50-1029-1												
4.10.1 Theory of operation												
4.10.1.1 Power distribution								-	A	-	-	
4.10.1.2 TMA FTG								-	A	-	-	
4.10.1.3 Waveform Generator FTG								-	A	-	-	
4.10.1.4 Band 1-3 Receiver FTG								-	A	-	-	
4.10.1.5 Radio Frequency (RF) Source FTG								-	A	-	-	
4.10.1.6 Frequency Encoder FTG								-	A	-	-	
4.10.1.7 Tail Warning Receiver FTG								-	A	-	-	
4.10.1.8 Test Adapter Group (TAG)								-	A	-	-	
4.10.1.9 Cooling system								-	A	-	-	
4.10.2 Wire run list and wiring diagrams								-	A	-	-	
4.10.3 Peculiar ATLAS								-	A	-	-	
4.10.4 Operate test station and associated equipment to:												
4.10.4.1 Perform Power-up/Power-down								-	-	-	-	
4.10.4.2 Perform CONF								-	-	-	-	
4.10.4.3 Perform DIAG								-	-	-	-	
4.10.4.4 Perform alignment								-	-	-	-	
4.10.4.5 Isolate/repair malfunctions								-	-	-	-	
4.11 B-1 R/EW LRU/TPS MAINTENANCE												
4.11.1 Driver, Band 6 TR: TOs 12P3-2ALQ161-72, 12P3-2ALQ161-78-1, 33D7-50-1300-1												
4.11.1.1 Theory of operation												
4.11.1.1.1 TPS								-	-	-	-	
4.11.1.1.2 LRU								-	-	-	-	
4.11.1.2 Operational check								-	-	-	-	
4.11.1.3 Isolate/repair malfunctions												
4.11.1.3.1 TPS								-	-	-	-	

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
4.11.1.3.2 LRU								-	-	-	-
4.11.1.4 TPS Normalization								-	-	-	-
4.11.2 Driver, Band 7 TR: TOs 12P3-2ALQ161-82, 12P3-2ALQ161-88-1, 33D7-50-1242-1											
4.11.2.1 Theory of operation											
4.11.2.1.1 TPS								-	-	-	-
4.11.2.1.2 LRU								-	-	-	-
4.11.2.2 Operational check	*							-	-	-	-
4.11.2.3 Isolate/repair malfunctions											
4.11.2.3.1 TPS								-	-	-	-
4.11.2.3.2 LRU								-	-	-	-
4.11.2.4 TPS Normalization								-	-	-	-
4.11.3 Encoder TR: TOs 12P3-2ALQ161-122, 12P3-2ALQ161-128-1, 33D7-50-1228-1											
4.11.3.1 Theory of operation											
4.11.3.1.1 TPS								-	-	-	-
4.11.3.1.2 LRU								-	-	-	-
4.11.3.2 Operational check								-	-	-	-
4.11.3.3 Isolate/repair malfunctions											
4.11.3.3.1 TPS								-	-	-	-
4.11.3.3.2 LRU								-	-	-	-
4.11.3.4 TPS Normalization								-	-	-	-
4.11.4 Frequency Channelizer (FCh) TR: TOs 12P3-2ALQ161-132, 12P3-2ALQ161-138-1, 33D7-50-1311-1											
4.11.4.1 Theory of operation											
4.11.4.1.1 TPS								-	-	-	-
4.11.4.1.2 LRU								-	-	-	-
4.11.4.2 Operational check	*							-	-	-	-
4.11.4.3 Isolate/repair malfunctions											
4.11.4.3.1 TPS								-	-	-	-
4.11.4.3.2 LRU								-	-	-	-
4.11.4.4 TPS Normalization								-	-	-	-
4.11.5 Interferometer Antenna TR: TOs 12P3-2ALQ161-352, 12P3-2ALQ161-358-1, 33D7-50-1305-1											
4.11.5.1 Theory of operation											

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
4.11.5.1.1 TPS								-	-	-	-
4.11.5.1.2 LRU								-	-	-	-
4.11.5.2 Operational check								-	-	-	-
4.11.5.3 Isolate/repair malfunctions											
4.11.5.3.1 TPS								-	-	-	-
4.11.5.3.2 LRU								-	-	-	-
4.11.6 Interferometer Receiver (IR) TR: TOs 12P3-2ALQ161-112, 12P3-2ALQ161-118-1, 33D7-50-1269-1											
4.11.6.1 Theory of operation											
4.11.6.1.1 TPS								-	-	-	-
4.11.6.1.2 LRU								-	-	-	-
4.11.6.2 Operational check								-	-	-	-
4.11.6.3 Isolate/repair malfunctions											
4.11.6.3.1 TPS								-	-	-	-
4.11.6.3.2 LRU								-	-	-	-
4.11.6.4 TPS Normalization								-	-	-	-
4.11.7 Radar Set Antenna (RSA) TR: TOs 12P1-4-30-2, 12P1-4-30-8-1, 33D7-44-255-1											
4.11.7.1 Theory of operation											
4.11.7.1.1 TPS								-	-	-	-
4.11.7.1.2 LRU								-	-	-	-
4.11.7.2 Operational check								-	-	-	-
4.11.7.3 Isolate/repair malfunctions											
4.11.7.3.1 TPS								-	-	-	-
4.11.7.3.2 LRU								-	-	-	-
4.11.8 Radar Receiver-Transmitter (RRT) TR: TO 12P1-4-32-2, 12P1-4-32-4											
4.11.8.1 Theory of operation											
4.11.8.1.1 TPS								-	-	-	-
4.11.8.1.2 LRU								-	-	-	-
4.11.8.2 Operational check								-	-	-	-
4.11.8.3 Isolate/repair malfunctions											
4.11.8.3.1 TPS								-	-	-	-
4.11.8.3.2 LRU								-	-	-	-
4.11.9 Radar Transmitter (RT) TR: TO 12P1-4-33-2, 12P1-4-33-4											
4.11.9.1 Theory of operation											
4.11.9.1.1 TPS								-	-	-	-

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
4.11.9.1.2 LRU								-	-	-	-
4.11.9.2 Operational check								-	-	-	-
4.11.9.3 Isolate/repair malfunctions											
4.11.9.3.1 TPS								-	-	-	-
4.11.9.3.2 LRU								-	-	-	-
4.11.9.4 RT Path Loss Compensation								-	-	-	-
4.11.9.5 RT Harmonization and Alignment								-	-	-	-
4.11.10 Radar Signal Processor (RSP) TR: TO 12P1-4-31-2, 12P1-4-31-4											
4.11.10.1 Theory of operation											
4.11.10.1.1 TPS								-	-	-	-
4.11.10.1.2 LRU								-	-	-	-
4.11.10.2 Operational check								-	-	-	-
4.11.10.3 Isolate/repair malfunctions											
4.11.10.3.1 TPS								-	-	-	-
4.11.10.3.2 LRU								-	-	-	-
4.11.10.4 Load/Verify OFP								-	-	-	-
4.11.11 Receiver, Bands 1,2,3 TR: TOs 12P3-2ALQ161-92, 12P3-2ALQ161-98-1, 33D7-50-1227-1											
4.11.11.1 Theory of operation											
4.11.11.1.1 TPS								-	-	-	-
4.11.11.1.2 LRU								-	-	-	-
4.11.11.2 Operational check								-	-	-	-
4.11.11.3 Isolate/repair malfunctions											
4.11.11.3.1 TPS								-	-	-	-
4.11.11.3.2 LRU								-	-	-	-
4.11.11.4 TPS Normalization								-	-	-	-
4.11.12 Receiver, Bands 4-8 TR: TOs 12P3-2ALQ161-102, 12P3-2ALQ161-108-1, 33D7-50-1310-1											
4.11.12.1 Theory of operation											
4.11.12.1.1 TPS								-	-	-	-
4.11.12.1.2 LRU								-	-	-	-
4.11.12.2 Operational check								-	-	-	-

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
4.11.12.3 Isolate/repair malfunctions												
4.11.12.3.1 TPS								-	-	-	-	
4.11.12.3.2 LRU								-	-	-	-	
4.11.12.4 TPS Normalization								-	-	-	-	
4.11.13 Receiver Antenna, Band 6 (ADR) TR: TOs 12P3-2ALQ161-322, 12P3-2ALQ161-328-1, 33D7-50-1301-1												
4.11.13.1 Theory of operation												
4.11.13.1.1 TPS								-	-	-	-	
4.11.13.1.2 LRU								-	-	-	-	
4.11.13.2 Operational check								-	-	-	-	
4.11.13.3 Isolate/repair malfunctions												
4.11.13.3.1 TPS								-	-	-	-	
4.11.13.3.2 LRU								-	-	-	-	
4.11.14 Receiver Antenna, Band 7 (ADR) TR: TOs 12P3-2ALQ161-332, 12P3-2ALQ161-338-1, 33D7-50-1302-1												
4.11.14.1 Theory of operation												
4.11.14.1.1 TPS								-	-	-	-	
4.11.14.1.2 LRU								-	-	-	-	
4.11.14.2 Operational check								-	-	-	-	
4.11.14.3 Isolate/repair malfunctions												
4.11.14.3.1 TPS								-	-	-	-	
4.11.14.3.2 LRU								-	-	-	-	
4.11.15 Receiver Antenna, Band 8 (ADR) TR: TOs 12P3-2ALQ161-342, 12P3-ALQ161-348-1, 33D7-50-1303-1												
4.11.15.1 Theory of operation												
4.11.15.1.1 TPS								-	-	-	-	
4.11.15.1.2 LRU								-	-	-	-	
4.11.15.2 Operational check								-	-	-	-	
4.11.15.3 Isolate/repair malfunctions												
4.11.15.3.1 TPS								-	-	-	-	

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
4.11.15.3.2 LRU								-	-	-	-
4.11.16 Receiver Antenna, Bands 6,7,8 (ADR) TR: TOs 12P3-2ALQ161-352, 12P3-2ALQ161-358-1, 33D7-50-1304-1											
4.11.16.1 Theory of operation											
4.11.16.1.1 TPS								-	-	-	-
4.11.16.1.2 LRU								-	-	-	-
4.11.16.2 Operational check								-	-	-	-
4.11.16.3 Isolate/repair malfunctions											
4.11.16.3.1 TPS								-	-	-	-
4.11.16.3.2 LRU								-	-	-	-
4.11.17 RF Source, Band 4/5 TR: TOs 12P3-2ALQ161-182, 12P3-2ALQ161-188-1, 33D7-50-1229-1											
4.11.17.1 Theory of operation											
4.11.17.1.1 TPS								-	-	-	-
4.11.17.1.2 LRU								-	-	-	-
4.11.17.2 Operational check								-	-	-	-
4.11.17.3 Isolate/repair malfunctions											
4.11.17.3.1 TPS								-	-	-	-
4.11.17.3.2 LRU								-	-	-	-
4.11.17.4 TPS Normalization								-	-	-	-
4.11.18 RF Source, Band 6 TR: TOs 12P3-2ALQ161-192, 12P3-2ALQ161-198-1, 33D7-50-1230-1											
4.11.18.1 Theory of operation											
4.11.18.1.1 TPS								-	-	-	-
4.11.18.1.2 LRU								-	-	-	-
4.11.18.2 Operational check								-	-	-	-
4.11.18.3 Isolate/repair malfunctions											
4.11.18.3.1 TPS								-	-	-	-
4.11.18.3.2 LRU								-	-	-	-
4.11.18.4 TPS Normalization								-	-	-	-

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
4.11.19 RF Source Repeater, Band 7 TR: TOs 12P3-2ALQ161-202, 12P3-2ALQ161-208-1, 33D7-50-1231-1												
4.11.19.1 Theory of operation												
4.11.19.1.1 TPS								-	-	-	-	
4.11.19.1.2 LRU								-	-	-	-	
4.11.19.2 Operational check	*							-	-	-	-	
4.11.19.3 Isolate/repair malfunctions												
4.11.19.3.1 TPS								-	-	-	-	
4.11.19.3.2 LRU								-	-	-	-	
4.11.19.4 TPS Normalization								-	-	-	-	
4.11.20 RF Source Repeater, Band 8 TR: TOs 12P3-2ALQ161-212, 12P3-2ALQ161-218-1, 33D7-50-1232-1												
4.11.20.1 Theory of operation												
4.11.20.1.1 TPS								-	-	-	-	
4.11.20.1.2 LRU								-	-	-	-	
4.11.20.2 Operational check								-	-	-	-	
4.11.20.3 Isolate/repair malfunctions												
4.11.20.3.1 TPS								-	-	-	-	
4.11.20.3.2 LRU								-	-	-	-	
4.11.20.4 TPS Normalization								-	-	-	-	
4.11.21 Transmitter, Band 4 (FWD & AFT) TR: TOs 12P3-2ALQ161-12, 12P3-2ALQ161-2, 12P3-2ALQ161-18-1, 33D7-50-1270-1, 33D7-50-1312-1												
4.11.21.1 Theory of operation												
4.11.21.1.1 TPS								-	-	-	-	
4.11.21.1.2 LRU								-	-	-	-	
4.11.21.2 Operational check								-	-	-	-	
4.11.21.3 Isolate/repair malfunctions												
4.11.21.3.1 TPS								-	-	-	-	
4.11.21.3.2 LRU								-	-	-	-	

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
4.11.22 Transmitter, Band 5 (FWD & AFT) TR: TOs 12P3-2ALQ161-22, 12P3-2ALQ161-28-1, 12P3-2ALQ161-32, 12P3-2ALQ161-38-1, 33D7-50-1313-1											
4.11.22.1 Theory of operation											
4.11.22.1.1 TPS								-	-	-	-
4.11.22.1.2 LRU								-	-	-	-
4.11.22.2 Operational check	*							-	-	-	-
4.11.22.3 Isolate/repair malfunctions											
4.11.22.3.1 TPS								-	-	-	-
4.11.22.3.2 LRU								-	-	-	-
4.11.23 Transmitter, Band 6 TR: TOs 12P3-2ALQ161-42, 12P3-2ALQ161-48-1, 33D7-50-1240-1											
4.11.23.1 Theory of operation											
4.11.23.1.1 TPS								-	-	-	-
4.11.23.1.2 LRU								-	-	-	-
4.11.23.2 Operational check								-	-	-	-
4.11.23.3 Isolate/repair malfunctions											
4.11.23.3.1 TPS								-	-	-	-
4.11.23.3.2 LRU								-	-	-	-
4.11.24 Transmitter, Band 7 TR: TOs 12P3-2ALQ161-52, 12P3-2ALQ161-58-1, 33D7-50-1241-1 TOs 12P3-2ALQ161-52, 12P3-2ALQ161-58-1, 33D7-50-1241-1											
4.11.24.1 Theory of operation											
4.11.24.1.1 TPS								-	-	-	-
4.11.24.1.2 LRU								-	-	-	-
4.11.24.2 Operational check								-	-	-	-
4.11.24.3 Isolate/repair malfunctions											
4.11.24.3.1 TPS								-	-	-	-
4.11.24.3.2 LRU								-	-	-	-

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
4.11.25 Transmitter Antenna, Band 6 TR: TOs 12P3-2ALQ161-282, 12P3-2ALQ161-288-1, 33D7-50-1307-1												
4.11.25.1 Theory of operation												
4.11.25.1.1 TPS								-	-	-	-	
4.11.25.1.2 LRU								-	-	-	-	
4.11.25.2 Operational check								-	-	-	-	
4.11.25.3 Isolate/repair malfunctions												
4.11.25.3.1 TPS								-	-	-	-	
4.11.25.3.2 LRU								-	-	-	-	
4.11.26 Transmitter Antenna, Band 7 (LFWD, RFWD & AFT) TR: TOs 12P3-2ALQ161-292, 12P3-2ALQ161-298-1, 33D7-50-1308-1												
4.11.26.1 Theory of operation												
4.11.26.1.1 TPS								-	-	-	-	
4.11.26.1.2 LRU								-	-	-	-	
4.11.26.2 Operational check								-	-	-	-	
4.11.26.3 Isolate/repair malfunctions												
4.11.26.3.1 TPS								-	-	-	-	
4.11.26.3.2 LRU								-	-	-	-	
4.11.27 Transmitter Antenna, Band 8 (FWD & AFT) TR: TOs 12P3-2ALQ161-302, 12P3-2ALQ161-308-1, 33D7-50-1309-1												
4.11.27.1 Theory of operation												
4.11.27.1.1 TPS								-	-	-	-	
4.11.27.1.2 LRU								-	-	-	-	
4.11.27.2 Operational check								-	-	-	-	
4.11.27.3 Isolate/repair malfunctions												
4.11.27.3.1 TPS								-	-	-	-	
4.11.27.3.2 LRU								-	-	-	-	
4.11.28 Transmitter/Driver, Band 8 TR: TOs 12P3-2ALQ161-62, 12P3-2ALQ161-68-1, 33D7-50-1243-1												
4.11.28.1 Theory of operation												

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
4.11.28.1.1 TPS								-	-	-	-
4.11.28.1.2 LRU								-	-	-	-
4.11.28.2 Operational check								-	-	-	-
4.11.28.3 Isolate/repair malfunctions											
4.11.28.3.1 TPS								-	-	-	-
4.11.28.3.2 LRU								-	-	-	-
4.11.29 Tail Warning Function (TWF) Receiver/Processor TR: TOs 12P3-2ALQ161-142, 12P3-2ALQ161-148-1, 33D7-50-1820-1											
4.11.29.1 Theory of operation											
4.11.29.1.1 TPS								-	-	-	-
4.11.29.1.2 LRU								-	-	-	-
4.11.29.2 Operational check								-	-	-	-
4.11.29.3 Isolate/repair malfunctions											
4.11.29.3.1 TPS								-	-	-	-
4.11.29.3.2 LRU								-	-	-	-
4.11.30 Waveform Generator TR: TOs 12P3-2ALQ161-222, 12P3-2ALQ161-228-1, 33D7-50-1233-1											
4.11.30.1 Theory of operation											
4.11.30.1.1 TPS								-	-	-	-
4.11.30.1.2 LRU								-	-	-	-
4.11.30.2 Operational check								-	-	-	-
4.11.30.3 Isolate/repair malfunctions											
4.11.30.3.1 TPS								-	-	-	-
4.11.30.3.2 LRU								-	-	-	-
4.12 UPGRADED SYSTEMS TEST BENCH (USTB) TR: TO 33D7-44-365-1											
4.12.1 Theory of Operation											
4.12.1.1 System Console Assembly											
4.12.1.1.1 Control System								-	-	-	-
4.12.1.1.2 Power Distribution System								-	-	-	-
4.12.1.1.3 Cooling System								-	-	-	-
4.12.2 LRU System Test Bench											
4.12.2.1 Power Distribution System								-	-	-	-

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
4.12.2.2 Cooling System								-	-	-	-
4.12.2.3 Waveguide Pressurization								-	-	-	-
4.12.3 Wire Run List and Wiring Diagrams								-	-	-	-
4.12.4 Perform Confidence								-	-	-	-
4.12.5 Perform Self-test								-	-	-	-
4.12.6 Preventive Maintenance								-	-	-	-
4.12.7 Perform Calibration								-	-	-	-
4.12.8 Repair								-	-	-	-
4.12.9 USTB LRU Maintenance											
4.12.9.1 Radar Target Indicator (RTI) TR: TO 12P1-4-29-2											
4.12.9.1.1 Perform Operational Testing								-	-	-	-
4.12.9.1.2 Troubleshoot and Repair								-	-	-	-
4.12.9.2 Radar Set Antenna (RSA) TR: TO 12P1-4-30-2											
4.12.9.2.1 Perform Operational Testing								-	-	-	-
4.12.9.2.2 Troubleshoot and Repair								-	-	-	-
4.12.9.3 Radar Signal Processor (RSP) TR: TO 12P1-4-31-2											
4.12.9.3.1 Perform Operational Testing								-	-	-	-
4.12.9.3.2 Troubleshoot and Repair								-	-	-	-
4.12.9.4 Radar Receiver Transmitter (RRT) TR: TO 12P1-4-32-2											
4.12.9.4.1 Perform Operational Testing								-	-	-	-
4.12.9.4.2 Troubleshoot and Repair								-	-	-	-
4.12.9.5 Radar Transmitter (RT) TR: TO 12P1-4-33-2											
4.12.9.5.1 Perform Operational Testing								-	-	-	-
4.12.9.5.2 Troubleshoot and Repair								-	-	-	-
4.12.9.6 Radar Video Signal Processor (RVSP) TR: TO 12P1-4-34-2											
4.12.9.6.1 Perform Operational Testing								-	-	-	-

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
4.12.9.6.2 Troubleshoot and Repair								-	-	-	-
4.13 B-1 IATE SUPPORT EQUIPMENT TR: TOs 35D29-5-6-1, 33DA21-494-1, 33DA43-35-1, 33DA102-18-1, 33D5-8-129-1, 35D3-11-104, 42B5-1-2, 35D3-42-2-1, 36-1-58											
4.13.1 Oil Cooling Cart											
4.13.1.1 Theory of operation								-	B	-	-
4.13.1.2 Operate								-	-	-	-
4.13.1.3 Repair								-	-	-	-
4.13.1.4 Inspections								-	-	-	-
4.13.2 Anechoic Device											
4.13.2.1 Theory of operation								-	B	-	-
4.13.2.2 Operate								-	-	-	-
4.13.2.3 Repair								-	-	-	-
4.13.2.4 Inspections								-	-	-	-
4.13.3 LRU Handling Fixture											
4.13.3.1 Operate								-	-	-	-
4.13.3.2 Inspections								-	-	-	-
4.13.4 Air Cooling Cart											
4.13.4.1 Theory of operation								-	-	-	-
4.13.4.2 Operate								-	-	-	-
4.13.4.3 Repair								-	-	-	-
4.13.4.4 Inspections								-	-	-	-
4.13.5 Calorimeter											
4.13.5.1 Theory of operation								-	-	-	-
4.13.5.2 Operate								-	-	-	-
4.13.5.3 Repair								-	-	-	-
4.13.5.4 Inspections								-	-	-	-
4.13.6 Pressure Tester											
4.13.6.1 Theory of operation								-	-	-	-
4.13.6.2 Operate								-	-	-	-
4.13.6.3 Repair								-	-	-	-
4.13.6.4 Inspections								-	-	-	-
4.13.7 Radiation Monitor											
4.13.7.1 Theory of operation								-	A	-	-
4.13.7.2 Operate								-	-	-	-
4.13.7.3 Inspections								-	-	-	-
4.13.8 Nitrogen Cart											
4.13.8.1 Theory of operation								-	-	-	-
4.13.8.2 Operate								-	-	-	-

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
4.13.8.3 Repair								-	-	-	-
4.13.8.4 Inspections								-	-	-	-
4.13.9 Lifting Dolly											
4.13.9.1 Theory of operation								-	-	-	-
4.13.9.2 Operate								-	-	-	-
4.13.9.3 Repair								-	-	-	-
4.13.9.4 Inspections								-	-	-	-
4.13.10 Micro Circuit Programmer											
4.13.10.1 Theory of operation								-	-	-	-
4.13.10.2 Operate								-	-	-	-
4.13.11 Environmental Chamber											
4.13.11.1 Theory of operation								-	-	-	-
4.13.11.2 Operate								-	-	-	-
4.13.12 RF Roll Up Amp											
4.13.12.1 Theory of operation								-	-	-	-
4.13.12.2 Operate								-	-	-	-
4.14 B-1 Power and Control Assembly Tester (PCAT) TR: TO 33D7-38-330-1											
4.14.1 Theory of Operations											
4.14.1.1 Power Control and Distribution Subsystem								-	-	-	-
4.14.1.2 UUT Power Subsystem								-	-	-	-
4.14.1.3 Digital Subsystem								-	-	-	-
4.14.1.4 Analog Subsystem								-	-	-	-
4.14.1.5 Computer Subsystem								-	-	-	-
4.14.1.6 Control Software Subsystem								-	-	-	-
4.14.1.7 Loads Subsystem								-	-	-	-
4.14.1.8 Interface Subsystem								-	-	-	-
4.14.2 Perform Power-up/Power-down Procedures								-	-	-	-
4.14.3 Perform Emergency Shutdown Procedures								-	-	-	-
4.14.4 Perform Confidence Test								-	-	-	-
4.14.5 Perform Interactive Test								-	-	-	-
4.14.6 Functional Test											
4.14.6.1 Perform Wire Verification Test (WVT)								-	-	-	-
4.14.6.2 Perform Functional Verification Test (FVT)								-	-	-	-
4.14.7 Perform Transition Interface Fixture (TIF) Test								-	-	-	-

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
4.14.8 Isolate/Repair Malfunctions												
4.14.8.1 Power Control and Distribution Subsystem								-	-	-	-	
4.14.8.2 UUT Power Subsystem								-	-	-	-	
4.14.8.3 Digital Subsystem								-	-	-	-	
4.14.8.4 Analog Subsystem								-	-	-	-	
4.14.8.5 Computer Subsystem								-	-	-	-	
4.14.8.6 Control Software Subsystem								-	-	-	-	
4.14.8.7 Loads Subsystem								-	-	-	-	
4.14.8.8 Interface Subsystem								-	-	-	-	
4.14.9 Perform Preventative Maintenance Procedures								-	-	-	-	
4.14.10 Perform Calibrations Procedures								-	-	-	-	
4.14.11 Power Control Assemblies (PCA) & associated ITAs assigned to PCAT:												
4.14.11.1 PCA 2453A05 TR: TOs 8C3-16-3-2, 8C3-16-3-8-1												
4.14.11.1.1 Theory of operation								-	-	-	-	
4.14.11.1.2 Perform software tests								-	-	-	-	
4.14.11.1.3 Isolate/repair malfunctions								-	-	-	-	
4.14.11.2 PCA 2451A01 TR: TOs 8C3-16-4-2, 8C3-16-4-8-1												
4.14.11.2.1 Theory of operation								-	-	-	-	
4.14.11.2.2 Perform software tests								-	-	-	-	
4.14.11.2.3 Isolate/repair malfunctions								-	-	-	-	
4.14.11.3 PCA 2453A03 TR: TOs 8C3-16-5-2,8C3-16-5-8-1												
4.14.11.3.1 Theory of operation								-	-	-	-	
4.14.11.3.2 Perform software tests								-	-	-	-	
4.14.11.3.3 Isolate/repair malfunctions								-	-	-	-	
4.14.11.4 PCA 2451A02 TR: TOs 8C3-16-6-2, 8C3-16-6-8-1												
4.14.11.4.1 Theory of operation								-	-	-	-	

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
4.14.11.4.2 Perform software tests								-	-	-	-
4.14.11.4.3 Isolate/repair malfunctions								-	-	-	-
4.14.11.5 PCA 2451A04 TR: TOs 8C3-16-7-2, 8C3-16-7-8-1											
4.14.11.5.1 Theory of operation								-	-	-	-
4.14.11.5.2 Perform software tests								-	-	-	-
4.14.11.5.3 Isolate/repair malfunctions								-	-	-	-
4.14.11.6 PCA 2455A04 TR: TOs 8C3-16-8-2, 8C3-16-8-8-1											
4.14.11.6.1 Theory of operation								-	-	-	-
4.14.11.6.2 Perform software tests								-	-	-	-
4.14.11.6.3 Isolate/repair malfunctions								-	-	-	-
4.14.11.7 PCA 2454A01 TR: TOs 8C3-16-9-2, 8C3-16-9-8-1											
4.14.11.7.1 Theory of operation								-	-	-	-
4.14.11.7.2 Perform software tests								-	-	-	-
4.14.11.7.3 Isolate/repair malfunctions								-	-	-	-
4.14.11.8 PCA 2453A01 TR: TOs 8C3-16-10-2, 8C3-16-10-8-1											
4.14.11.8.1 Theory of operation								-	-	-	-
4.14.11.8.2 Perform software tests								-	-	-	-
4.14.11.8.3 Isolate/repair malfunctions								-	-	-	-
4.14.11.9 PCA 2455A01 TR: TOs 8C3-16-11-2, 8C3-16-11-8-1											
4.14.11.9.1 Theory of operation								-	-	-	-
4.14.11.9.2 Perform software tests								-	-	-	-
4.14.11.9.3 Isolate/repair malfunctions								-	-	-	-
4.14.11.10 PCA 2451A01 TR: TOs 8C3-16-12-2, 8C3-16-12-8-1											
4.14.11.10.1 Theory of operation								-	-	-	-
4.14.11.10.2 Perform software tests								-	-	-	-

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
4.14.11.10.3 Isolate/repair malfunctions								-	-	-	-
4.14.11.11 PCA 2453A02 TR: TOs 8C3-16-13-2, 8C3-16-13-8-1											
4.14.11.11.1 Theory of operation								-	-	-	-
4.14.11.11.2 Perform software tests								-	-	-	-
4.14.11.11.3 Isolate/repair malfunctions								-	-	-	-
4.14.11.12 PCA 2431A01 TR: TOs 8C3-16-18-2, 8C3-16-18-8-1											
4.14.11.12.1 Theory of operation								-	-	-	-
4.14.11.12.2 Perform software tests								-	-	-	-
4.14.11.12.3 Isolate/repair malfunctions								-	-	-	-
4.14.11.13 PCA 2452A06 TR: TOs 8C3-18-7-2, 8C3-18-7-8-1											
4.14.11.13.1 Theory of operation								-	-	-	-
4.14.11.13.2 Perform software tests								-	-	-	-
4.14.11.13.3 Isolate/repair malfunctions								-	-	-	-
4.14.11.14 PCA 2453A06 TR: TOs 8C3-18-8-2, 8C3-18-8-8-1											
4.14.11.14.1 Theory of operation								-	-	-	-
4.14.11.14.2 Perform software tests								-	-	-	-
4.14.11.14.3 Isolate/repair malfunctions								-	-	-	-
4.14.11.15 PCA 2453A04 TR: TOs 8C3-18-9-2, 8C3-18-7-9-1											
4.14.11.15.1 Theory of operation								-	-	-	-
4.14.11.15.2 Perform software tests								-	-	-	-
4.14.11.15.3 Isolate/repair malfunctions								-	-	-	-
4.14.11.16 PCA 2455A06 TR: TOs 8C3-18-10-2, 8C3-18-10-8-1											
4.14.11.16.1 Theory of operation								-	-	-	-
4.14.11.16.2 Perform software tests								-	-	-	-
4.14.11.16.3 Isolate/repair malfunctions								-	-	-	-

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
4.14.11.17 PCA 2455A05 TR: TOs 8C3-18-11-2, 8C3-18-11-8-1												
4.14.11.17.1 Theory of operation								-	-	-	-	
4.14.11.17.2 Perform software tests								-	-	-	-	
4.14.11.17.3 Isolate/repair malfunctions								-	-	-	-	
4.14.11.18 PCA 2454A06 TR: TOs 8C3-18-12-2, 8C3-18-12-8-1												
4.14.11.18.1 Theory of operation								-	-	-	-	
4.14.11.18.2 Perform software tests								-	-	-	-	
4.14.11.18.3 Isolate/repair malfunctions								-	-	-	-	
4.14.11.19 PCA 2454A05 TR: TOs 8C3-18-13-2, 8C3-18-13-8-1												
4.14.11.19.1 Theory of operation								-	-	-	-	
4.14.11.19.2 Perform software tests								-	-	-	-	
4.14.11.19.3 Isolate/repair malfunctions								-	-	-	-	
4.14.11.20 PCA 2454A04 TR: TOs 8C3-18-14-2, 8C3-18-14-8-1												
4.14.11.20.1 Theory of operation								-	-	-	-	
4.14.11.20.2 Perform software tests								-	-	-	-	
4.14.11.20.3 Isolate/repair malfunctions								-	-	-	-	
4.14.11.21 PCA 2452A03 TR: TOs 8C3-18-15-2, 8C3-18-15-8-1												
4.14.11.21.1 Theory of operation								-	-	-	-	
4.14.11.21.2 Perform software tests								-	-	-	-	
4.14.11.21.3 Isolate/repair malfunctions								-	-	-	-	
4.14.11.22 PCA 2452A04 TR: TOs 8C3-18-16-2, 8C3-18-16-8-1												
4.14.11.22.1 Theory of operation								-	-	-	-	
4.14.11.22.2 Perform software tests								-	-	-	-	
4.14.11.22.3 Isolate/repair malfunctions								-	-	-	-	

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
4.14.11.23 PCA 2452A01 TR: TOs 8C3-18-17-2, 8C3-18-17-8-1												
4.14.11.23.1 Theory of operation								-	-	-	-	
4.14.11.23.2 Perform software tests								-	-	-	-	
4.14.11.23.3 Isolate/repair malfunctions								-	-	-	-	
4.14.11.24 PCA 2454A03 TR: TOs 8C3-18-18-2, 8C3-18-18-8-1												
4.14.11.24.1 Theory of operation								-	-	-	-	
4.14.11.24.2 Perform software tests								-	-	-	-	
4.14.11.24.3 Isolate/repair malfunctions								-	-	-	-	
4.14.11.25 PCA 2451A05 TR: TOs 8C3-18-19-2, 8C3-18-19-8-1												
4.14.11.25.1 Theory of operation								-	-	-	-	
4.14.11.25.2 Perform software tests								-	-	-	-	
4.14.11.25.3 Isolate/repair malfunctions								-	-	-	-	
4.14.12 Bench Test Unit (BTU) TR: TO 33D7-6-291-1												
4.14.12.1 Theory of operation								-	-	-	-	
4.14.12.2 Isolate/repair malfunctions								-	-	-	-	
4.14.12.3 PCAs assigned												
4.14.12.3.1 Dual Pylon Relay Assembly												
4.14.12.3.1.1 Theory of operation								-	-	-	-	
4.14.12.3.1.2 Perform software tests								-	-	-	-	
4.14.12.3.1.3 Isolate/repair malfunctions								-	-	-	-	
4.14.12.3.2 Common Rotary Launcher PCA												
4.14.12.3.2.1 Theory of operation								-	-	-	-	
4.14.12.3.2.2 Perform software tests								-	-	-	-	
4.14.12.3.2.3 Isolate/repair malfunctions								-	-	-	-	
4.14.12.3.3 Conventional Rotary Launcher PCA												
4.14.12.3.3.1 Theory of operation								-	-	-	-	
4.14.12.3.3.2 Perform software tests								-	-	-	-	

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
4.14.12.3.3.3 Isolate/repair malfunctions								-	-	-	-
4.14.12.3.4 Forward Annex Bay Air Launch Cruise Missile (ALCM)											
4.14.12.3.4.1 Theory of operation								-	-	-	-
4.14.12.3.4.2 Perform software tests								-	-	-	-
4.14.12.3.4.3 Isolate/repair malfunctions								-	-	-	-
4.14.12.3.5 Aft Weapons Bay ALCM PCA											
4.14.12.3.5.1 Theory of operation								-	-	-	-
4.14.12.3.5.2 Perform software tests								-	-	-	-
4.14.12.3.5.3 Isolate/repair malfunctions								-	-	-	-
4.15 B-1 PANELS TEST SET											
4.15.1 Test Set TR: TO 33A1-3-532-1											
4.15.1.1 Theory of operation								-	-	-	-
4.15.1.2 Isolate/repair malfunctions								-	-	-	-
4.15.2 LRUs assigned:											
4.15.2.1 Hydraulic Indicator Panel TR: TO 8D24-11-2											
4.15.2.1.1 Theory of operation								-	-	-	-
4.15.2.1.2 Perform maintenance test								-	-	-	-
4.15.2.1.3 Isolate/repair malfunctions								-	-	-	-
4.15.2.2 Communication and Traffic Control Panel TR: TO 16W-40-2											
4.15.2.2.1 Theory of operation								-	-	-	-
4.15.2.2.2 Perform maintenance test								-	-	-	-
4.15.2.2.3 Isolate/repair malfunctions								-	-	-	-
4.15.2.3 Flight Control Power Panel TR: TO 8D24-16-2											
4.15.2.3.1 Theory of operation								-	-	-	-
4.15.2.3.2 Perform maintenance test								-	-	-	-
4.15.2.3.3 Isolate/repair malfunctions								-	-	-	-
4.15.2.4 Center Gravity (CG) Control Panel TR: TO 8D24-15-2											

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
4.15.2.4.1 Theory of operation								-	-	-	-
4.15.2.4.2 Perform maintenance test								-	-	-	-
4.15.2.4.3 Isolate/repair malfunctions								-	-	-	-
4.15.2.5 Avionics Power Supply TR: TO 16W7-44-2											
4.15.2.5.1 Theory of operation								-	-	-	-
4.15.2.5.2 Perform maintenance test								-	-	-	-
4.15.2.5.3 Isolate/repair malfunctions								-	-	-	-
4.15.2.6 Auxiliary Caution Panel TR: TO 8D15-9-28-2											
4.15.2.6.1 Theory of operation								-	-	-	-
4.15.2.6.2 Perform maintenance test								-	-	-	-
4.15.2.6.3 Isolate/repair malfunctions								-	-	-	-
4.15.2.7 Flight Director Control Panel TR: TO 8A4-18-13-2											
4.15.2.7.1 Theory of operation								-	-	-	-
4.15.2.7.2 Perform maintenance test								-	-	-	-
4.15.2.7.3 Isolate/repair malfunctions								-	-	-	-
4.15.2.8 Flight Control Trim Pilots control panel TR: TO 8D24-15-2											
4.15.2.8.1 Theory of operation								-	-	-	-
4.15.2.8.2 Perform maintenance test								-	-	-	-
4.15.2.8.3 Isolate/repair malfunctions								-	-	-	-
4.15.2.9 EMUX Control Panel TR: TO 8D24-21-2											
4.15.2.9.1 Theory of operation								-	-	-	-
4.15.2.9.2 Perform maintenance test								-	-	-	-
4.15.2.9.3 Isolate/repair malfunctions								-	-	-	-
4.15.2.10 Flight Instruments Test and Mode Control Panel TR: TO 8D24-23-2											
4.15.2.10.1 Theory of operation								-	-	-	-
4.15.2.10.2 Perform maintenance test								-	-	-	-

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
4.15.2.10.3 Isolate/repair malfunctions								-	-	-	-
4.15.2.11 AFCS Lighted Pushbuttons Panel Assembly TR: TO 5A13-5-22-2											
4.15.2.11.1 Theory of operation								-	-	-	-
4.15.2.11.2 Perform maintenance test								-	-	-	-
4.15.2.11.3 Isolate/repair malfunctions								-	-	-	-
4.15.2.12 Fuel Management Control Panel TR: TO 8D24-19-2											
4.15.2.12.1 Theory of operation								-	-	-	-
4.15.2.12.2 Perform maintenance test								-	-	-	-
4.15.2.12.3 Isolate/repair malfunctions								-	-	-	-
4.15.2.13 External Fuel Control Panel TR: TO 8D24-20-2											
4.15.2.13.1 Theory of operation								-	-	-	-
4.15.2.13.2 Perform maintenance test								-	-	-	-
4.15.2.13.3 Isolate/repair malfunctions								-	-	-	-
4.15.2.14 Annunciator Aft Station Panel TR: TO 8A4-18-14-2											
4.15.2.14.1 Theory of operation								-	-	-	-
4.15.2.14.2 Perform maintenance test								-	-	-	-
4.15.2.14.3 Isolate/repair malfunctions								-	-	-	-
4.15.2.15 Alternate Throttle Pilots/Co-Pilots Control Panel TR: TO 8A13-14-20-2											
4.15.2.15.1 Theory of operation								-	-	-	-
4.15.2.15.2 Perform maintenance test								-	-	-	-
4.15.2.15.3 Isolate/repair malfunctions								-	-	-	-

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
4.15.2.16 Aircraft Navigation Tail Light TR: TO 8A10-8-12-2												
4.15.2.16.1 Theory of operation								-	-	-	-	
4.15.2.16.2 Perform maintenance test								-	-	-	-	
4.15.2.16.3 Isolate/repair malfunctions								-	-	-	-	
4.15.2.17 Aerial Refueling Control Panel TR: TO 8D24-14-2												
4.15.2.17.1 Theory of operation								-	-	-	-	
4.15.2.17.2 Perform maintenance test								-	-	-	-	
4.15.2.17.3 Isolate/repair malfunctions								-	-	-	-	
4.15.2.18 Battery Charger (4-067-02) TR: TOs 33A1-3-532-1, 33A1-3-532-4, 8D2-44-2, 8D2-44-4												
4.15.2.18.1 Theory of operation								-	-	-	-	
4.15.2.18.2 Perform maintenance test								-	-	-	-	
4.15.2.18.3 Isolate/repair malfunctions								-	-	-	-	
4.15.2.19 Battery Charger (199BC101-1) TR: TO 8D2-43-2												
4.15.2.19.1 Theory of operation								-	-	-	-	
4.15.2.19.2 Perform maintenance test								-	-	-	-	
4.15.2.19.3 Isolate/repair malfunctions								-	-	-	-	
4.15.2.20 Driver Assembly, Engine Caution and Warning TR: TO 8C3-14-18-2												
4.15.2.20.1 Theory of operation								-	-	-	-	
4.15.2.20.2 Perform maintenance test								-	-	-	-	
4.15.2.20.3 Isolate/repair malfunctions								-	-	-	-	

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC	
4.15.2.21 Box Assembly Aisle Light Switch TR: TO 8A10-4-2-2												
4.15.2.21.1 Theory of operation								-	-	-	-	
4.15.2.21.2 Perform maintenance test								-	-	-	-	
4.15.2.21.3 Isolate/repair malfunctions								-	-	-	-	
4.15.2.22 Control Unit Compass TR: TO 5N6-8-5-2												
4.15.2.22.1 Theory of operation								-	-	-	-	
4.15.2.22.2 Perform maintenance test								-	-	-	-	
4.15.2.22.3 Isolate/repair malfunctions								-	-	-	-	
4.15.2.23 Fire Extinguishing Panel TR: TO 13F9-7-2												
4.15.2.23.1 Theory of operation								-	-	-	-	
4.15.2.23.2 Perform maintenance test								-	-	-	-	
4.15.2.23.3 Isolate/repair malfunctions								-	-	-	-	
4.15.2.24 Light Strobe Anti-collision FWD Wing TR: TO 8A10-8-11-2												
4.15.2.24.1 Theory of operation								-	-	-	-	
4.15.2.24.2 Perform maintenance test								-	-	-	-	
4.15.2.24.3 Isolate/repair malfunctions								-	-	-	-	
4.15.2.25 Panel Annunciator Offensive System Operator (OSO) TR: TO 8D10-7-19-2												
4.15.2.25.1 Theory of operation								-	-	-	-	
4.15.2.25.2 Perform maintenance test								-	-	-	-	
4.15.2.25.3 Isolate/repair malfunctions								-	-	-	-	
4.15.2.26 Panel Annunciator Pilot TR: TO 8D24-30-2												
4.15.2.26.1 Theory of operation								-	-	-	-	
4.15.2.26.2 Perform maintenance test								-	-	-	-	

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
4.15.2.26.3 Isolate/repair malfunctions								-	-	-	-
4.15.2.27 Panel Assembly Auxiliary Power Unit TR: TO 8E3-3-3-2											
4.15.2.27.1 Theory of operation								-	-	-	-
4.15.2.27.2 Perform maintenance test								-	-	-	-
4.15.2.27.3 Isolate/repair malfunctions								-	-	-	-
4.15.2.28 Panel Assembly Flight Station Oxygen TR: TO 16W7-43-2											
4.15.2.28.1 Theory of operation								-	-	-	-
4.15.2.28.2 Perform maintenance test								-	-	-	-
4.15.2.28.3 Isolate/repair malfunctions								-	-	-	-
4.15.2.29 Panel Assembly Aft Station Environmental TR: TO 8D24-22-2											
4.15.2.29.1 Theory of operation								-	-	-	-
4.15.2.29.2 Perform maintenance test								-	-	-	-
4.15.2.29.3 Isolate/repair malfunctions								-	-	-	-
4.15.2.30 Panel Assembly Essential C/B Defensive System Operator (DSO) TR: TO 8D24-27-2											
4.15.2.30.1 Theory of operation								-	-	-	-
4.15.2.30.2 Perform maintenance test								-	-	-	-
4.15.2.30.3 Isolate/repair malfunctions								-	-	-	-
4.15.2.31 Panel Assembly Essential C/B OSO TR: TO 8D24-29-2											
4.15.2.31.1 Theory of operation								-	-	-	-
4.15.2.31.2 Perform maintenance test								-	-	-	-
4.15.2.31.3 Isolate/repair malfunctions								-	-	-	-

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
4.15.2.32 Panel Assembly EXT Fuel Tank Jettison TR: TO 8D24-9-2												
4.15.2.32.1 Theory of operation								-	-	-	-	
4.15.2.32.2 Perform maintenance test								-	-	-	-	
4.15.2.32.3 Isolate/repair malfunctions								-	-	-	-	
4.15.2.33 Panel Assembly Forward Lighting TR: TO 8C10-8-7-2												
4.15.2.33.1 Theory of operation								-	-	-	-	
4.15.2.33.2 Perform maintenance test								-	-	-	-	
4.15.2.33.3 Isolate/repair malfunctions								-	-	-	-	
4.15.2.34 Panel Assembly Left Hand (L/H) TR: TO 5E6-5-7-2												
4.15.2.34.1 Theory of operation								-	-	-	-	
4.15.2.34.2 Perform maintenance test								-	-	-	-	
4.15.2.34.3 Isolate/repair malfunctions								-	-	-	-	
4.15.2.35 Panel Assembly Overhead Driver L/H TR: TO 8C10-7-5-2												
4.15.2.35.1 Theory of operation								-	-	-	-	
4.15.2.35.2 Perform maintenance test								-	-	-	-	
4.15.2.35.3 Isolate/repair malfunctions								-	-	-	-	
4.15.2.36 Panel Assembly Overhead Driver R/H TR: TO 8C10-7-5-12												
4.15.2.36.1 Theory of operation								-	-	-	-	
4.15.2.36.2 Perform maintenance test								-	-	-	-	
4.15.2.36.3 Isolate/repair malfunctions								-	-	-	-	
4.15.2.37 Panel Assembly Takeoff and Landing Gear TR: TO 8D24-28-2												
4.15.2.37.1 Theory of operation								-	-	-	-	

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
4.15.2.37.2 Perform maintenance test								-	-	-	-
4.15.2.37.3 Isolate/repair malfunctions								-	-	-	-
4.15.2.38 Panel Engine Auxiliary TR: TO 8D24-26-2											
4.15.2.38.1 Theory of operation								-	-	-	-
4.15.2.38.2 Perform maintenance test								-	-	-	-
4.15.2.38.3 Isolate/repair malfunctions								-	-	-	-
4.15.2.39 Panel Environmental Flight Station TR: TO 8A25-35-2											
4.15.2.39.1 Theory of operation								-	-	-	-
4.15.2.39.2 Perform maintenance test								-	-	-	-
4.15.2.39.3 Isolate/repair malfunctions								-	-	-	-
4.15.2.40 Panel External Alert Access TR: TO 8D15-9-29-2											
4.15.2.40.1 Theory of operation								-	-	-	-
4.15.2.40.2 Perform maintenance test								-	-	-	-
4.15.2.40.3 Isolate/repair malfunctions								-	-	-	-
4.15.2.41 Panel Fire Detector TR: TO 8D24-13-2											
4.15.2.41.1 Theory of operation								-	-	-	-
4.15.2.41.2 Perform maintenance test								-	-	-	-
4.15.2.41.3 Isolate/repair malfunctions								-	-	-	-
4.15.2.42 Panel Ground Refuel/Defuel TR: TO 8D24-18-12											
4.15.2.42.1 Theory of operation								-	-	-	-
4.15.2.42.2 Perform maintenance test								-	-	-	-
4.15.2.42.3 Isolate/repair malfunctions								-	-	-	-

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
4.15.2.43 Panel Landing Gear Assembly TR: TO 8D24-17-2												
4.15.2.43.1 Theory of operation								-	-	-	-	
4.15.2.43.2 Perform maintenance test								-	-	-	-	
4.15.2.43.3 Isolate/repair malfunctions								-	-	-	-	
4.15.2.44 Panel Light Control DSO/OSO TR: TO 8D10-7-15-2												
4.15.2.44.1 Theory of operation								-	-	-	-	
4.15.2.44.2 Perform maintenance test								-	-	-	-	
4.15.2.44.3 Isolate/repair malfunctions								-	-	-	-	
4.15.2.45 Panel Mode Ejection TR: TO 8D24-10-2												
4.15.2.45.1 Theory of operation								-	-	-	-	
4.15.2.45.2 Perform maintenance test								-	-	-	-	
4.15.2.45.3 Isolate/repair malfunctions								-	-	-	-	
4.15.2.46 Panel Power Distribution (engine start) TR: TO 8D24-24-2												
4.15.2.46.1 Theory of operation								-	-	-	-	
4.15.2.46.2 Perform maintenance test								-	-	-	-	
4.15.2.46.3 Isolate/repair malfunctions								-	-	-	-	
4.16 MANUAL LRU MAINTENANCE												
4.16.1 Power Supply Dimmer TR: TO 8C15-8-26-2												
4.16.1.1 Theory of operation								-	-	-	-	
4.16.1.2 Perform maintenance test								-	-	-	-	
4.16.1.3 Isolate/repair malfunctions								-	-	-	-	
4.16.2 Power Supply Tail Strobe Light TR: TO 8D3-54-2												
4.16.2.1 Theory of operation								-	-	-	-	
4.16.2.2 Perform maintenance test								-	-	-	-	
4.16.2.3 Isolate/repair malfunctions								-	-	-	-	

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
4.16.3 Power Supply Wing Strobe Light TR: TO 8D11-3-53-2												
4.16.3.1 Theory of operation								-	-	-	-	
4.16.3.2 Perform maintenance test								-	-	-	-	
4.16.3.3 Isolate/repair malfunctions								-	-	-	-	
4.16.4 Control Stick Grip TR: TO 16C1-27-23-2												
4.16.4.1 Theory of operation								-	-	-	-	
4.16.4.2 Perform maintenance test								-	-	-	-	
4.16.4.3 Isolate/repair malfunctions								-	-	-	-	
4.16.5 Wing Sweep Command Position Sensor Assembly TR: TO 5F25-21-2												
4.16.5.1 Theory of operation								-	-	-	-	
4.16.5.2 Perform maintenance test								-	-	-	-	
4.16.5.3 Isolate/repair malfunctions								-	-	-	-	
4.16.5.4 Perform assembly/disassembly								-	-	-	-	
4.16.6 Single Position Sensor Assembly TR: TO 5F25-18-2												
4.16.6.1 Theory of operation								-	-	-	-	
4.16.6.2 Perform maintenance test								-	-	-	-	
4.16.6.3 Isolate/repair malfunctions								-	-	-	-	
4.16.6.4 Perform assembly/disassembly								-	-	-	-	
4.16.7 Vertical Stabilizer Assembly TR: TO 5F25-14-2												
4.16.7.1 Perform maintenance test								-	-	-	-	
4.16.7.2 Isolate/repair malfunctions								-	-	-	-	
4.16.7.3 Perform assembly/disassembly								-	-	-	-	
4.16.8 Annunciator Light Dimmer Type II TR: TO 8C15-8-24-2												
4.16.8.1 Theory of operation								-	-	-	-	
4.16.8.2 Perform maintenance test								-	-	-	-	
4.16.8.3 Isolate/repair malfunctions								-	-	-	-	
4.16.9 Radar Transponder Beacon Control TR: TO 12P4-2APX105-2												
4.16.9.1 Theory of operation								-	-	-	-	

B-1 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
4.16.9.2 Perform maintenance test								-	-	-	-
4.16.9.3 Isolate/repair malfunctions								-	-	-	-
4.16.10 Intercommunication Station (ICS-150) TR: TO 12R2-2AIC33-2											
4.16.10.1 Operate ICS Test Set								-	-	-	-
4.16.10.2 Troubleshoot and Repair ICS Test Set								-	-	-	-
4.16.10.3 ICS-150 Central Control Unit (CCU)											
4.16.10.3.1 Perform Maintenance Testing								-	-	-	-
4.16.10.3.2 Troubleshoot and Repair								-	-	-	-
4.16.10.4 ICS-150 Crew Station Unit (CSU)											
4.16.10.4.1 Perform Maintenance Testing								-	-	-	-
4.16.10.4.2 Troubleshoot and Repair								-	-	-	-
4.16.10.5 ICS-150 Maintenance Station Unit (MSU)											
4.16.10.5.1 Perform Maintenance Testing								-	-	-	-
4.16.10.5.2 Troubleshoot and Repair								-	-	-	-

B-2 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
ATTACHMENT 5											
NOTE 1: All course requirements are trained in the 3-level resident wartime course. The 7-level in-residence course is not taught in wartime.											
NOTE 2: Users are responsible for annotating training references to identify current references pending STS revision											
NOTE 3: Items marked in columns 2a or 2b with a “*R” are optional core tasks for ANG and AFRC.											
NOTE 4: Address comments and recommended changes through the MAJCOM Functional Managers to the AETC Training g Manager, DSN 736-7899.											
5 ATTACHMENT 5, B-2 TRAINING REQUIREMENTS											
5.1 B-2 AVIONICS INTERMEDIATE SHOP (AIS)											
5.1.1 RFAD/DIFA Test Station TR: TO 33D7-3-341-1											
5.1.1.1 Theory Of Operation											
5.1.1.1.1 Computer and peripherals								A	B	-	-
5.1.1.1.2 Analog Subsystems								A	B	-	-
5.1.1.1.3 TUB and ASCOR								A	B	-	-
5.1.1.1.4 TEST STATION COOLING								-	-	-	-
5.1.1.1.5 Power distribution								A	B	-	-
5.1.1.1.6 RF subsystem								A	B	-	-
5.2 RFAD/DIFA Test Station Procedures											
5.2.1 Computer Systems											
5.2.1.1 Sun Computer TR: TO 31S5-4-2977-7, 31S5-4-2879-1											
5.2.1.1.1 Execute software		*						-	-	-	-
5.2.1.1.2 Isolate/Repair Malfunctions		*						-	-	-	-
5.2.1.2 Dec/Alpha Computer TR: TO 31S5-4-2919-8-1											
5.2.1.2.1 Execute software		*						-	-	-	-
5.2.1.2.2 Isolate/Repair Malfunctions		*						-	-	-	-
5.2.1.3 Computer Peripherals											
5.2.1.3.1 Operate								-	-	-	-
5.2.1.3.2 Isolate/Repair Malfunctions								-	-	-	-
5.2.1.4 Ethernet/Ethernet devices TR: TOS 31R2-4-1851-7, 31S5-4-2847-7, 31S5-4- 2913-1, 31S5-4-2914-1, 31S5-4-2918-7, 31S5-4- 2920-1, 31S5-4-2940-7											

B-2 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
5.2.1.4.1 Isolate/Repair Malfunctions								-	-	-	-
5.2.1.5 HPIB Bus TR: TO 33A1-7-363-7											
5.2.1.5.1 Isolate/Repair Malfunctions								-	-	-	-
5.2.2 TUB TR: TO 33D7-71-80-2											
5.2.2.1 Isolate/Repair Malfunctions								-	-	-	-
5.2.3 Bay 1 TR: TO 33D7-3-431-1											
5.2.3.1 Power Control Panel											
5.2.3.1.1 Operate								-	-	-	-
5.2.3.1.2 Isolate/Repair Malfunctions								-	-	-	-
5.2.4 Bay 2 TRUs TR: TO 33D7-3-431-1											
5.2.4.1 Digital Oscilloscope (HP54542A)											
5.2.4.1.1 Isolate Malfunctions								-	-	-	-
5.2.4.1.2 Remove and Replace								-	-	-	-
5.2.4.2 Pulse Generators 1 and 2 (HP8110A) TR: TO 33A1-8-1148-1, 33A1-8-1149-2											
5.2.4.2.1 Isolate Malfunctions								-	-	-	-
5.2.4.2.2 Remove and Replace								-	-	-	-
5.2.4.3 ASCOR Matrix											
5.2.4.3.1 Isolate Malfunctions								-	-	-	-
5.2.4.3.2 Remove and Replace								-	-	-	-
5.2.4.4 VXI Mainframe and Sub-components TR: TO 33D7-71-80-2											
5.2.4.4.1 Isolate Malfunctions								-	-	-	-
5.2.4.4.2 Remove and Replace								-	-	-	-
5.2.5 Bay 4 TRUs TR: TOs 33D7-3-431-1, 33D7-71-80-2											
5.2.5.1 Counter (HP53132A) TR: TOs 33A1-10-317-1, 33A1-10-319-1, 33A1-10-320-1											
5.2.5.1.1 Isolate Malfunctions								-	-	-	-

B-2 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
5.2.5.1.2 Remove and Replace								-	-	-	-
5.2.5.2 AFG 2020 TR: TO 31S5-4-2939-8-1											
5.2.5.2.1 Isolate Malfunctions								-	-	-	-
5.2.5.2.2 Remove and Replace								-	-	-	-
5.2.5.3 Wavetek 295 TR: TOs 33A1-8-1158-1, 33A1-8-1159-2											
5.2.5.3.1 Isolate Malfunctions								-	-	-	-
5.2.5.3.2 Remove and Replace								-	-	-	-
5.2.5.4 Universal Source (HP3245A) TR: TOs 31S5-4-2913-7, 33A1-3-614-5, 33A1-3-615-2, 33A1-3-616-1											
5.2.5.4.1 Isolate Malfunctions								-	-	-	-
5.2.5.4.2 Remove and Replace								-	-	-	-
5.2.5.5 AC/DC Signal Switching Matrix (HP8760A K83) TR: TO 33A1-3-607-1											
5.2.5.5.1 Isolate Malfunctions								-	-	-	-
5.2.5.5.2 Remove and Replace								-	-	-	-
5.2.5.6 Switch Driver (HP11713A) TR: TOs 33D7-72-20-1											
5.2.5.6.1 Isolate Malfunctions								-	-	-	-
5.2.5.6.2 Remove and Replace								-	-	-	-
5.2.5.7 DC Signal Source Amplifier (HP85127)											
5.2.5.7.1 Isolate Malfunctions								-	-	-	-
5.2.5.7.2 Remove and Replace								-	-	-	-
5.2.5.8 Multimeter (HP3458A) TR: TOs 33A1-12-1442-1, 33A1-13-1444-2, 33A1-12-1445-5											
5.2.5.8.1 Isolate Malfunctions								-	-	-	-
5.2.5.8.2 Remove and Replace								-	-	-	-
5.2.5.9 Audio Analyzer (HP8903) TR: TO 33A1-13-722-1											
5.2.5.9.1 Isolate Malfunctions								-	-	-	-
5.2.5.9.2 Remove and Replace								-	-	-	-

B-2 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
5.2.5.10 Video Signal Generator (TSG 1001) TR: TOs 31S5-4-2863-8-1, 33A1-8-1154-2												
5.2.5.10.1 Isolate Malfunctions								-	-	-	-	
5.2.5.10.2 Remove and Replace								-	-	-	-	
5.2.5.11 RS232/IEEE-488 Interface Converter TR: TOs 33A1-7-367-1												
5.2.5.11.1 Isolate Malfunctions								-	-	-	-	
5.2.5.11.2 Remove and Replace								-	-	-	-	
5.2.6 BAY 5 TRUs TR: TO 33D7-3-431-1												
5.2.6.1 DC Supply 6 (HP6674) TR: TOs 35C1-2-1339-1, 35C1-2-1340-1, 35C1-2-1341-2, 35C1-2-1342-2-1												
5.2.6.1.1 Isolate Malfunctions								-	-	-	-	
5.2.6.1.2 Remove and Replace								-	-	-	-	
5.2.6.2 Power Supply 7 (HV 350) TR: TO 33D7-6-366-1												
5.2.6.2.1 Isolate Malfunctions								-	-	-	-	
5.2.6.2.2 Remove and Replace								-	-	-	-	
5.2.6.3 AC Power Source (California Instruments 4500L) TR: TO 33D7-6-365-7												
5.2.6.3.1 Isolate Malfunctions								-	-	-	-	
5.2.6.3.2 Remove and Replace								-	-	-	-	
5.2.6.4 Bus Expander (GPIB-120A) TR: TO 31S5-4-2934-8-1												
5.2.6.4.1 Isolate Malfunctions								-	-	-	-	
5.2.6.4.2 Remove and Replace								-	-	-	-	
5.2.6.5 Power Supply 9 TR: TOs 33A1-12-1449-1, 33A1-12-1450-1												
5.2.6.5.1 Isolate Malfunctions								-	-	-	-	
5.2.6.5.2 Remove and Replace								-	-	-	-	
5.2.6.6 DC Supply 10-1 and 10-2 TR: TOs 35C1-2-1339-1, 35C1-2-1340-1, 35C1-2-1342-2												

B-2 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
5.2.6.6.1 Isolate Malfunctions								-	-	-	-
5.2.6.6.2 Remove and Replace								-	-	-	-
5.2.6.7 Transformer Vault (Bay 6)											
5.2.6.7.1 Operate								-	-	-	-
5.2.6.7.2 Isolate/Repair Malfunctions								-	-	-	-
5.2.6.8 Upper/Lower AC Expansion Box											
5.2.6.8.1 Isolate/Repair Malfunctions								-	-	-	-
5.2.6.9 VXI/Computer Power Supplies											
5.2.6.9.1 Isolate/Repair Malfunctions								-	-	-	-
5.2.6.10 Power Distribution Units/Power Strips											
5.2.6.10.1 Isolate/Repair Malfunctions								-	-	-	-
5.2.7 BAY 7 TRUs TR: TO 33D7-3-431-1											
5.2.7.1 Data Generator (HP8000) TR: TOs 33A1-8-1145-7, 33A1-8-1146-1											
5.2.7.1.1 Isolate Malfunctions								-	-	-	-
5.2.7.1.2 Remove and Replace								-	-	-	-
5.2.7.2 Power Supply 4 (HP6642A) TR: TOs 35C1-2-1339-1, 35C1-2-1340-1											
5.2.7.2.1 Isolate Malfunctions								-	-	-	-
5.2.7.2.2 Remove and Replace								-	-	-	-
5.2.7.3 Power Supply 3a:A thru 3b:C (HP6675A) TR: TOs 35C1-2-1339-1, 35C1-2-1342-2											
5.2.7.3.1 Isolate Malfunctions								-	-	-	-
5.2.7.3.2 Remove and Replace								-	-	-	-
5.2.8 BAY 8 TRUs TR: TO 33D7-3-431-1											
5.2.8.1 DC Loads 1, 2, and 3 (HP6050A) TR: TOs 31S5-4-2943-2, 33A1-3-617-1											
5.2.8.1.1 Isolate Malfunctions								-	-	-	-

B-2 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
5.2.8.1.2 Remove and Replace								-	-	-	-
5.2.8.2 Power Supplies 1:A thru 2:D (HP6033A, HP6038A) TR: TO 33A1-7-371-1											
5.2.8.2.1 Isolate Malfunctions								-	-	-	-
5.2.8.2.2 Remove and Replace								-	-	-	-
5.2.8.3 DC Supplies 5, 8, and 10 (HP6672A, HP6673A) TR: TOs 35C1-2-1339-1, 35C1-2-1342-2											
5.2.8.3.1 Isolate Malfunctions								-	-	-	-
5.2.8.3.2 Remove and Replace								-	-	-	-
5.2.8.4 Relay Box B TR: TO 33A1-7-363-7											
5.2.8.4.1 Isolate Malfunctions								-	-	-	-
5.2.8.4.2 Remove and Replace								-	-	-	-
5.2.9 BAY 9 TRUs TR: TO 33D7-3-431-1											
5.2.9.1 Digitizing Oscilloscope (HP54750A) TR: TOs 31S5-4-2875-2, 31S5-4-2911-2											
5.2.9.1.1 Isolate Malfunctions								-	-	-	-
5.2.9.1.2 Remove and Replace								-	-	-	-
5.2.9.2 Vector Analyzer (89410A) TR: TOs 33A1-13-735-1, 33D7-10-279-8-1											
5.2.9.2.1 Isolate Malfunctions								-	-	-	-
5.2.9.2.2 Remove and Replace								-	-	-	-
5.2.9.3 Noise Test Set (HP7101A) TR: TOs 33A1-13-715-8-1, 33A1-13-716-8-1											
5.2.9.3.1 Isolate Malfunctions								-	-	-	-
5.2.9.3.2 Remove and Replace								-	-	-	-
5.2.9.4 HP Vectra Computer TR: TO 33A1-7-373-1											
5.2.9.4.1 Isolate Malfunctions								-	-	-	-
5.2.9.4.2 Remove and Replace								-	-	-	-
5.2.9.5 Signal Generators S1 thru S3 (HP8644B) TR: TO 33A1-8-1114-1, 33A1-8-1151-1											

B-2 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
5.2.9.5.1 Isolate Malfunctions								-	-	-	-
5.2.9.5.2 Remove and Replace								-	-	-	-
5.2.9.6 Power Supply (HP3616A) TR: TO 33A1-7-370-1											
5.2.9.6.1 Isolate Malfunctions								-	-	-	-
5.2.9.6.2 Remove and Replace								-	-	-	-
5.2.9.7 Switch Driver (HP11713A) TR: TO 33D7-72-20-11											
5.2.9.7.1 Isolate Malfunctions								-	-	-	-
5.2.9.7.2 Remove and Replace								-	-	-	-
5.2.9.8 Bus Expander (GPIB-120A) TR: TO 31S5-4-2934-8-1											
5.2.9.8.1 Isolate Malfunctions								-	-	-	-
5.2.9.8.2 Remove and Replace								-	-	-	-
5.2.10 BAY 10 TRUs TR: TO 33D7-3-431-1											
5.2.10.1 Signal Generator (HP8648A) TR: TO 33D7-59-115-1											
5.2.10.1.1 Isolate Malfunctions								-	-	-	-
5.2.10.1.2 Remove and Replace								-	-	-	-
5.2.10.2 Synthesized Signal Generator (HP83711B) TR: TO 33D7-59-115-1											
5.2.10.2.1 Isolate Malfunctions								-	-	-	-
5.2.10.2.2 Remove and Replace								-	-	-	-
5.2.10.3 Synthesized Signal Sweeper (HP83623A) TR: TO 33A1-13-719-2, 33A1-13-720-2											
5.2.10.3.1 Isolate Malfunctions								-	-	-	-
5.2.10.3.2 Remove and Replace								-	-	-	-
5.2.10.4 Microwave Mixer/Detector (HP5364) TR: TO 33A1-13-712-1											
5.2.10.4.1 Isolate Malfunctions								-	-	-	-
5.2.10.4.2 Remove and Replace								-	-	-	-

B-2 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC	
5.2.10.5 Pulse Analyzer (HP5373) TR: TO 33A1-13-712-1, 33D7-59-111-1												
5.2.10.5.1 Isolate Malfunctions								-	-	-	-	
5.2.10.5.2 Remove and Replace								-	-	-	-	
5.2.10.6 Modulation Analyzer (HP8901A) TR: TO 33A1-13-724-1												
5.2.10.6.1 Isolate Malfunctions								-	-	-	-	
5.2.10.6.2 Remove and Replace								-	-	-	-	
5.2.10.7 Signal Generator (HP8644) TR: TOs 33A1-8-1114-1, 33A1-8-1151-1, 33D7-59-109-2												
5.2.10.7.1 Isolate Malfunctions								-	-	-	-	
5.2.10.7.2 Remove and Replace								-	-	-	-	
5.2.10.8 Microwave Frequency Counter (HP5350) TR: TOs 33A1-12-1446-1, 33A1-12-1447-2												
5.2.10.8.1 Isolate Malfunctions								-	-	-	-	
5.2.10.8.2 Remove and Replace								-	-	-	-	
5.2.10.9 Distribution Analyzer (HP5087A) TR: TOs 33A1-2-303-1, 33A1-2-313-1												
5.2.10.9.1 Isolate Malfunctions								-	-	-	-	
5.2.10.9.2 Remove and Replace								-	-	-	-	
5.2.10.10 Pulse Generator (HP8110) TR: TOs 33A1-8-1148-1, 33A1-8-1149-2												
5.2.10.10.1 Isolate Malfunctions								-	-	-	-	
5.2.10.10.2 Remove and Replace								-	-	-	-	
5.2.10.11 Matrix Interface (HP85127-0085) TR: TOs 33A1-7-360-7												
5.2.10.11.1 Isolate Malfunctions								-	-	-	-	
5.2.10.11.2 Remove and Replace								-	-	-	-	
5.2.11 BAY 11 TRUs TR: TO 33D7-3-431-1												

B-2 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
5.2.11.1 Power Supply (HP8760A K84) TR: TO 33A1-3-608-1											
5.2.11.1.1 Isolate Malfunctions								-	-	-	-
5.2.11.1.2 Remove and Replace								-	-	-	-
5.2.11.2 Colby Programmable Delay Line (PDL10A) TR: TO 31S5-4-2938-1											
5.2.11.2.1 Isolate Malfunctions								-	-	-	-
5.2.11.2.2 Remove and Replace								-	-	-	-
5.2.11.3 Spectrum Analyzer (HP70004A) TR: TOs 33A1-5-611-7, 33A1-13-677-7											
5.2.11.3.1 Isolate Malfunctions								-	-	-	-
5.2.11.3.2 Remove and Replace								-	-	-	-
5.2.11.4 Synthesized Signal Generator (HP8663A) TR: TOs 33A1-8-942-1-1, 33A1-8-942-1-2											
5.2.11.4.1 Isolate Malfunctions								-	-	-	-
5.2.11.4.2 Remove and Replace								-	-	-	-
5.2.12 BAY 12 TRUs TR: TO 33D7-3-431-1											
5.2.12.1 Digital Oscilloscope (HP54522A) TR: TO 33A1-13-733-1											
5.2.12.1.1 Isolate Malfunctions								-	-	-	-
5.2.12.1.2 Remove and Replace								-	-	-	-
5.2.12.2 Noise Source (UFX7107) TR: TO 33A1-8-1160-1											
5.2.12.2.1 Isolate Malfunctions								-	-	-	-
5.2.12.2.2 Remove and Replace								-	-	-	-
5.2.12.3 Network Analyzer (HP8751A) and S-Test Set (HP875111A) TR: TOs 33A1-13-670-8-1, 33A1-13-699-2, 33A1-13-700-1											
5.2.12.3.1 Isolate Malfunctions								-	-	-	-
5.2.12.3.2 Remove and Replace								-	-	-	-

B-2 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
5.2.12.4 LCR Meter (HP4285A) TR: TOs 33A1-13-708-2, 33A1-13-710-1												
5.2.12.4.1 Isolate Malfunctions								-	-	-	-	
5.2.12.4.2 Remove and Replace								-	-	-	-	
5.2.12.5 Network Analyzer (HP8720C) TR: TOs 33A1-5-597-2, 33A1-13-702-1												
5.2.12.5.1 Isolate Malfunctions								-	-	-	-	
5.2.12.5.2 Remove and Replace								-	-	-	-	
5.2.12.6 Boonton Power Meter (4220A) TR: TO 33A1-13-736-1												
5.2.12.6.1 Isolate Malfunctions								-	-	-	-	
5.2.12.6.2 Remove and Replace								-	-	-	-	
5.2.12.7 Power Module (HP1143A) TR: TO 33A1-5-593-1												
5.2.12.7.1 Isolate Malfunctions								-	-	-	-	
5.2.12.7.2 Remove and Replace								-	-	-	-	
5.2.12.8 NARDA Radiation Sensor TR: TO 33A1-5-599-1, 33A1-5-600-1												
5.2.12.8.1 Isolate Malfunctions								-	-	-	-	
5.2.12.8.2 Remove and Replace								-	-	-	-	
5.2.12.9 Peak Power Analyzer (HP8990A) TR: TOs 33A1-13-723-2, 33D7-10-281-1												
5.2.12.9.1 Isolate Malfunctions								-	-	-	-	
5.2.12.9.2 Remove and Replace								-	-	-	-	
5.2.12.10 K63 RF INTERFACE (BRIDGE) TR: TOs 33A1-7-359-1, 33A1-15-99-8-1												
5.2.12.10.1 Isolate Malfunctions								-	-	-	-	
5.2.12.10.2 Remove and Replace								-	-	-	-	
5.3 B-2 SUPPORT EQUIPMENT								-	-	-	-	
5.3.1 DIFA PCE CART TR: TO 33B4-8-11-1												
5.3.1.1 Theory								-	B	-	-	
5.3.1.2 Operation	*							-	-	-	-	

B-2 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
5.3.1.3 Remove and Replace TRUs								-	-	-	-
5.3.2 RFAD PCE CART TR: COMMERCIAL MANUAL # HP85127AE03, MANUAL P/N 85127-90025											
5.3.2.1 Theory								-	B	-	-
5.3.2.2 Operation								-	-	-	-
5.3.2.3 Remove and Replace TRUs								-	-	-	-
5.3.3 Intermediate ROLL-UP CART TR: TO 33D7-50-2655-1											
5.3.3.1 Theory								-	B	-	-
5.3.3.2 30-Day								-	-	-	-
5.3.3.3 180-Day								-	-	-	-
5.3.3.4 Isolate Malfunctions								-	-	-	-
5.3.3.5 Remove and Replace								-	-	-	-
5.3.4 Forced Air Cooling Cart (FACC) TR: TO 35E10-31-1											
5.3.4.1 Theory								-	B	-	-
5.3.4.2 Test								-	-	-	-
5.3.4.3 Isolate/repair malfunctions								-	-	-	-
5.3.4.4 180-Day								-	-	-	-
5.4 B-2 DIFA/RFAD Maintenance											
5.4.1 DIFA Operating Procedures TR: TO 33D7-3-431-1-1											
5.4.1.1 Perform Turn-on	*							-	-	-	-
5.4.1.2 Perform Shutdown	*							-	-	-	-
5.4.1.3 Perform Operator Inspection	*							-	-	-	-
5.4.1.4 Perform Cleaning	*							-	-	-	-
5.4.1.5 Operate Mechanical Rotation System	*							-	-	-	-
5.4.2 Perform DIFA Preventative Maintenance TR: TO 33D7-3-431-1-1											
5.4.2.1 7-day	*							-	-	-	-
5.4.2.2 30-day	*							-	-	-	-
5.4.2.3 90-day	*							-	-	-	-
5.4.2.4 180-day		*						-	-	-	-

B-2 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
5.4.3 Perform DIFA Functional Testing TR: TO 33D7-70-80-2 33A1-7-376-1, CPIN 81T-B2/AUTOCALVER/US-001-00A												
5.4.3.1 Overnights	*							-	-	-	-	
5.4.3.2 Checkers	*							-	-	-	-	
5.4.3.3 Self Test	*							-	-	-	-	
5.4.3.4 Norm Cal		*						-	-	-	-	
5.4.3.5 Manual CalVer		*						-	-	-	-	
5.4.3.6 Automatic CalVer		*						-	-	-	-	
5.4.4 DIFA CLASSIFICATION PROCEDURES TR: CPIN: 81TB2/AUTODECLASS-U001-00A, 81T-B2/AUTODECLASS-U001-00D												
5.4.4.1 Classify Station	*							-	-	-	-	
5.4.4.2 Declassify Station	*							-	-	-	-	
5.4.5 Perform RFAD Operating Procedures TR: TO 33D7-3-431-1-1												
5.4.5.1 Perform Turn-on	*							-	-	-	-	
5.4.5.2 Perform Shutdown	*							-	-	-	-	
5.4.5.3 Perform Operator Inspection	*							-	-	-	-	
5.4.5.4 Perform Cleaning	*							-	-	-	-	
5.4.5.5 Operate Mechanical Rotation System	*							-	-	-	-	
5.4.6 Perform RFAD Preventative Maintenance TR: TO 33D7-3-431-1-1												
5.4.6.1 7-day	*							-	-	-	-	
5.4.6.2 30-day	*							-	-	-	-	
5.4.6.3 90-day	*							-	-	-	-	
5.4.6.4 180-day		*						-	-	-	-	
5.4.7 Perform RFAD Functional Testing TR: TO 33D7-70-80-2, 33A1-7-376-1, CPIN 81T-B2/AUTOCALVER/US-001-00A												

B-2 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
5.4.7.1 Overnights	*							-	-	-	-
5.4.7.2 Checkers	*							-	-	-	-
5.4.7.3 Self Test		*						-	-	-	-
5.4.7.4 Norm Cal		*						-	-	-	-
5.4.7.5 Manual CalVer		*						-	-	-	-
5.4.7.6 Automatic CalVer		*						-	-	-	-
5.4.8 RFAD CLASSIFICATION PROCEDURES TR: CPIN: 81TB2/AUTODECLASS- U001-00A, 81T- B2/AUTODECLASS- U001-00D											
5.4.8.1 Classify Station	*							-	-	-	-
5.4.8.2 Declassify Station	*							-	-	-	-
5.5 B-2 LINE REPLACEABLE UNIT (LRU) MAINTENANCE											
5.5.1 Base Fixture TR: CPIN: 81T-B2/IST- T130-00A											
5.5.1.1 Theory of operation								-	-	-	-
5.5.1.2 Test											
5.5.1.2.1 Fixture	*							-	-	-	-
5.5.1.2.2 PM								-	-	-	-
5.5.1.3 Repair											
5.5.1.3.1 Fixture		*						-	-	-	-
5.5.1.3.2 PM								-	-	-	-
5.5.2 Actuator Remote Terminal (ART) TR: TO 8D1-64-21-2, 8D1- 64-21-4, CPIN: 81F- OQ498/ART-U001-01A											
5.5.2.1 Theory of Operation								-	-	-	-
5.5.2.2 Test											
5.5.2.2.1 PM								-	-	-	-
5.5.2.2.2 LRU	*							-	-	-	-
5.5.2.3 Repair											
5.5.2.3.1 PM								-	-	-	-
5.5.2.3.2 LRU	*							-	-	-	-

B-2 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
5.5.3 Anti-Skid Control Unit (ASCU) TR: TO 4BA8-43-2, CPIN: 81U-OQ503/ASCU-U001-01A												
5.5.3.1 Theory of Operation								-	-	-	-	
5.5.3.2 Test												
5.5.3.2.1 PM								-	-	-	-	
5.5.3.2.2 LRU								-	-	-	-	
5.5.3.3 Repair												
5.5.3.3.1 PM								-	-	-	-	
5.5.3.3.2 LRU								-	-	-	-	
5.5.4 Audio Central Distribution Unit (ACDU) TR: TO 12R2-4-303-Series, CPIN: 81C-OQ470/ACDU-U001-01A												
5.5.4.1 Theory of Operation								-	-	-	-	
5.5.4.2 Test												
5.5.4.2.1 PM								-	-	-	-	
5.5.4.2.2 LRU								-	-	-	-	
5.5.4.3 Repair												
5.5.4.3.1 PM								-	-	-	-	
5.5.4.3.2 LRU								-	-	-	-	
5.5.5 Audio Control Panel (ACP) TR: TO 12R2-4-304-Series, CPIN: 81C-OQ470/ACDU-U001-01A												
5.5.5.1 Theory of Operation								-	-	-	-	
5.5.5.2 Test												
5.5.5.2.1 PM								-	-	-	-	
5.5.5.2.2 LRU	*							-	-	-	-	
5.5.5.3 Repair												
5.5.5.3.1 PM								-	-	-	-	
5.5.5.3.2 LRU	*							-	-	-	-	
5.5.6 Avionics Control Computer (ACC) TR: TO 12P5-4-91-Series,CPIN: 81Q-OQ512/ACC-U001-01A												
5.5.6.1 Theory of Operation								-	-	-	-	
5.5.6.2 Test												
5.5.6.2.1 PM								-	-	-	-	

B-2 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
5.5.6.2.2 LRU	*							-	-	-	-
5.5.6.3 Repair											
5.5.6.3.1 PM								-	-	-	-
5.5.6.3.2 LRU	*							-	-	-	-
5.5.7 Bus Control Unit (BCU) TR: TOs 8A3-5-60-Series, CPIN: 81Q-OQ497/BCU- U001-01A											
5.5.7.1 Theory of Operation								-	-	-	-
5.5.7.2 Test											
5.5.7.2.1 PM								-	-	-	-
5.5.7.2.2 LRU								-	-	-	-
5.5.7.3 Repair											
5.5.7.3.1 PM								-	-	-	-
5.5.7.3.2 LRU								-	-	-	-
5.5.8 Conditioned Air System Controller (CASC) TR: TOs 15A-2-8-Series, CPIN: 81N-OQ469/CASC- U001-01A											
5.5.8.1 Theory of Operation								-	-	-	-
5.5.8.2 Test											
5.5.8.2.1 PM								-	-	-	-
5.5.8.2.2 LRU								-	-	-	-
5.5.8.3 Repair											
5.5.8.3.1 PM								-	-	-	-
5.5.8.3.2 LRU								-	-	-	-
5.5.9 Engine Performance Monitor (EPM) TR: TOs 51E19-3-2-Series, CPIN: 81E-OQ504/EPM- U001-01A											
5.5.9.1 Theory of Operation								-	-	-	-
5.5.9.2 Test											
5.5.9.2.1 PM								-	-	-	-
5.5.9.2.2 LRU								-	-	-	-
5.5.9.3 Repair											
5.5.9.3.1 PM								-	-	-	-
5.5.9.3.2 LRU								-	-	-	-

B-2 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
5.5.10 Engine Start Control Unit (ESCU) TR: TOs 2JA3-67-Series, CPIN: 81E-OQ474/ESCU-U001-01A											
5.5.10.1 Theory of Operation								-	-	-	-
5.5.10.2 Test											
5.5.10.2.1 PM								-	-	-	-
5.5.10.2.2 LRU								-	-	-	-
5.5.10.3 Repair											
5.5.10.3.1 PM								-	-	-	-
5.5.10.3.2 LRU								-	-	-	-
5.5.11 Engine Thrust Control Unit (ETCU) TR: TOs 8D3-3-4-Series, CPIN: 81E-OQ468/ETCU-U001-01D											
5.5.11.1 Theory of Operation								-	-	-	-
5.5.11.2 Test											
5.5.11.2.1 PM								-	-	-	-
5.5.11.2.2 LRU								-	-	-	-
5.5.11.3 Repair											
5.5.11.3.1 PM								-	-	-	-
5.5.11.3.2 LRU								-	-	-	-
5.5.12 Fire Warning and Leak Detector (FWALD) TR: TOs 8A3-17-7-Series, CPIN: 81E-OQ473/FWLDC-U001-01A											
5.5.12.1 Theory of Operation								-	-	-	-
5.5.12.2 Test											
5.5.12.2.1 PM								-	-	-	-
5.5.12.2.2 LRU								-	-	-	-
5.5.12.3 Repair											
5.5.12.3.1 PM								-	-	-	-
5.5.12.3.2 LRU								-	-	-	-
5.5.13 Flight Control Computer (FCC) TR: TOs 5F5-13-6-Series, CPIN: 81F-OQ513/FCC-U001-01A											
5.5.13.1 Theory of Operation								-	-	-	-
5.5.13.2 Test											

B-2 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
5.5.13.2.1 PM								-	-	-	-
5.5.13.2.2 LRU	*							-	-	-	-
5.5.13.3 Repair											
5.5.13.3.1 PM								-	-	-	-
5.5.13.3.2 LRU	*							-	-	-	-
5.5.14 Fuel Management Measurement Processor (FMMP) TR: TOs 5L18-4-Series, CPIN: 81S-OQ502/FMMP-U001-01A											
5.5.14.1 Theory of Operation								-	-	-	-
5.5.14.2 Test											
5.5.14.2.1 PM								-	-	-	-
5.5.14.2.2 LRU								-	-	-	-
5.5.14.3 Repair											
5.5.14.3.1 PM								-	-	-	-
5.5.14.3.2 LRU								-	-	-	-
5.5.15 Manual Fuel Control Panel (MFCP) TR: TOs 8D3-18-19-Series, CPIN: 81S-OQ472/MFCP-U001-01A											
5.5.15.1 Theory of Operation								-	-	-	-
5.5.15.2 Test											
5.5.15.2.1 PM								-	-	-	-
5.5.15.2.2 LRU								-	-	-	-
5.5.15.3 Repair											
5.5.15.3.1 PM								-	-	-	-
5.5.15.3.2 LRU								-	-	-	-
5.5.16 Power Control Unit (PCU) TR: TOs 12R5-4-224-Series, CPIN: 81F-OQ500/PCU-U001-01A											
5.5.16.1 Theory of Operation								-	-	-	-
5.5.16.2 Test											
5.5.16.2.1 PM								-	-	-	-
5.5.16.2.2 LRU								-	-	-	-
5.5.16.3 Repair											
5.5.16.3.1 PM								-	-	-	-
5.5.16.3.2 LRU								-	-	-	-

B-2 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
5.5.17 Power Drive Controller (PDC) TR: TOs 8D3-3-5-Series, CPIN: 81Q-OQ505/PDC-U001-01A												
5.5.17.1 Theory of Operation								-	-	-	-	
5.5.17.2 Test												
5.5.17.2.1 PM								-	-	-	-	
5.5.17.2.2 LRU								-	-	-	-	
5.5.17.3 Repair												
5.5.17.3.1 PM								-	-	-	-	
5.5.17.3.2 LRU								-	-	-	-	
5.5.18 Status Monitor Remote Terminal (SMRT) TR: TOs 8A3-17-8-Series, CPIN: 81F-OQ467/SMRT-U001-01A												
5.5.18.1 Theory of Operation								-	-	-	-	
5.5.18.2 Test												
5.5.18.2.1 PM								-	-	-	-	
5.5.18.2.2 LRU								-	-	-	-	
5.5.18.3 Repair												
5.5.18.3.1 PM								-	-	-	-	
5.5.18.3.2 LRU								-	-	-	-	
5.5.19 Generator Control Unit (GCU) TR: TO 8A3-5-59-2												
5.5.19.1 Theory of Operation								-	-	-	-	
5.5.19.2 Test												
5.5.19.2.1 PM								-	-	-	-	
5.5.19.2.2 LRU								-	-	-	-	
5.5.19.3 Repair												
5.5.19.3.1 PM								-	-	-	-	
5.5.19.3.2 LRU								-	-	-	-	
5.5.20 HF Receiver-Transmitter (HFRT) TR: TO 12R4-305-Series CPIN: 81C-OQ518/HFRT-U001-01A												
5.5.20.1 Theory of Operation								-	-	-	-	
5.5.20.2 Test												
5.5.20.2.1 PM								-	-	-	-	
5.5.20.2.2 LRU								-	-	-	-	

B-2 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC	
5.5.20.3 Repair												
5.5.20.3.1 PM								-	-	-	-	
5.5.20.3.2 LRU								-	-	-	-	
5.5.21 KU-Band Transponder TR: TO 12R5-4-243-Series CPIN: 81C-OQ517/KUBT-U001-01A												
5.5.21.1 Theory of Operation								-	-	-	-	
5.5.21.2 Test												
5.5.21.2.1 PM								-	-	-	-	
5.5.21.2.2 LRU	*							-	-	-	-	
5.5.21.3 Repair												
5.5.21.3.1 PM								-	-	-	-	
5.5.21.3.2 LRU	*							-	-	-	-	
5.5.22 X-BAND Transponder TR: TO 12R5-4-244-Series CPIN: 81C-OQ520/XBT-U001-01A												
5.5.22.1 Theory of Operation								-	-	-	-	
5.5.22.2 Test												
5.5.22.2.1 PM								-	-	-	-	
5.5.22.2.2 LRU								-	-	-	-	
5.5.22.3 Repair												
5.5.22.3.1 PM								-	-	-	-	
5.5.22.3.2 LRU								-	-	-	-	
5.6 B-2 MANUAL SUPPORT EQUIPMENT/LRU MAINTENANCE												
5.6.1 EQUIPMENT												
5.6.1.1 Serial bus analyzer TR: TBD												
5.6.1.1.1 Theory								-	-	-	-	
5.6.1.1.2 Operate	*							-	-	-	-	
5.6.1.1.3 Calibrate								-	-	-	-	
5.6.1.1.4 Isolate/repair malfunctions		*						-	-	-	-	
5.6.1.2 Cable Breakout Adapter												
5.6.1.2.1 Theory								-	-	-	-	
5.6.1.2.2 Operate								-	-	-	-	
5.6.1.2.3 Isolate/repair malfunctions								-	-	-	-	
5.6.1.3 Eprom Erasing System												
5.6.1.3.1 Theory								-	-	-	-	

B-2 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
5.6.1.3.2 Operate								-	-	-	-
5.6.1.3.3 Isolate/Repair Malfunctions								-	-	-	-
5.6.1.4 Relay Panel tester TR: TO 33D7-10-280-1											
5.6.1.4.1 Theory of Operation								-	-	-	-
5.6.1.4.2 Perform Maintenance Testing	*							-	-	-	-
5.6.1.4.3 Calibrate								-	-	-	-
5.6.1.4.4 Isolate/repair malfunctions		*						-	-	-	-
5.6.2 LRUs											
5.6.2.1 Avionics Processor Control Panel TR: TO 12R5-4-226-2											
5.6.2.1.1 Theory of Operation								-	-	-	-
5.6.2.1.2 Perform Maintenance Testing								-	-	-	-
5.6.2.1.3 Isolate/repair malfunctions								-	-	-	-
5.6.2.2 Angle-of-Attack Indexers TR: TO 5F24-3-2											
5.6.2.2.1 Theory of Operation								-	-	-	-
5.6.2.2.2 Perform Maintenance Testing								-	-	-	-
5.6.2.2.3 Isolate/repair malfunctions								-	-	-	-
5.6.2.3 Alternate Trim Control Panel TR: TO 8C3-14-29-2											
5.6.2.3.1 Theory of Operation								-	-	-	-
5.6.2.3.2 Perform Maintenance Testing								-	-	-	-
5.6.2.3.3 Isolate/repair malfunctions								-	-	-	-
5.6.2.4 Flight Control Maint. Panel TR: TO 8C3-14-30-2											
5.6.2.4.1 Theory of Operation								-	-	-	-
5.6.2.4.2 Perform Maintenance Testing								-	-	-	-
5.6.2.4.3 Isolate/repair malfunctions								-	-	-	-

B-2 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
5.6.2.5 Fuel Control Relay Panel TR: TO 8RA1-6-2												
5.6.2.5.1 Theory of Operation								-	-	-	-	
5.6.2.5.2 Perform Maintenance Testing	*							-	-	-	-	
5.6.2.5.3 Isolate/repair malfunctions		*						-	-	-	-	
5.6.2.6 Power Control Relay Panel TR: TO 8RA1-5-2												
5.6.2.6.1 Theory of Operation								-	-	-	-	
5.6.2.6.2 Perform Maintenance Testing								-	-	-	-	
5.6.2.6.3 Isolate/Repair Malfunctions								-	-	-	-	
5.6.2.7 Ground Refuel Panel TR: TO 16W7-53-2												
5.6.2.7.1 Theory of Operation								-	-	-	-	
5.6.2.7.2 Perform Maintenance Testing								-	-	-	-	
5.6.2.7.3 Isolate/repair malfunctions								-	-	-	-	
5.6.2.8 On Board Maintenance Printer (OBMP) TR: TO 12S2-4-21-Series												
5.6.2.8.1 Theory of Operation								-	-	-	-	
5.6.2.8.2 Perform Maintenance Testing								-	-	-	-	
5.6.2.8.3 Isolate/repair malfunctions								-	-	-	-	
5.6.2.9 Control Stick Grip Assembly TR: TO 8RA1-5-2												
5.6.2.9.1 Theory of Operation								-	-	-	-	
5.6.2.9.2 Perform Maintenance Testing	*							-	-	-	-	
5.6.2.9.3 Isolate/repair malfunctions	*							-	-	-	-	
5.6.2.10 Miniature Airborne GPS Receiver (MAGR) TR: TO 12R5-4-260-8-1												
5.6.2.10.1 Theory								-	-	-	-	
5.6.2.10.2 Programming								-	-	-	-	

C-17 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
ATTACHMENT 6											
NOTE 1: All course requirements are trained in the 3-level resident wartime course. The 7-level in-residence course is not taught in wartime.											
NOTE 2: Users are responsible for annotating training references to identify current references pending STS revision											
NOTE 3: Items marked in columns 2a or 2b with a “*R” are optional core tasks for ANG and AFRC.											
NOTE 4: Address comments and recommended changes through the MAJCOM Functional Managers to the AETC Training Manager, DSN 736-7899.											
6 ATTACHMENT 6, C-17 TRAINING REQUIREMENTS											
6.1 C-17 Avionics Intermediate Shop											
6.1.1 Automatic Test Equipment											
6.1.1.1 Automatic Test Equipment Digital Analog Video (DAV) Test Station											
6.1.1.1.1 Theory of Operation											
6.1.1.1.1.1 Video/Pneumatic Module											
6.1.1.1.1.1.1 Video Theory											
6.1.1.1.1.1.2 Pneumatic Theory											
6.1.1.1.1.2 Display Unit Test Set											
6.1.1.1.2 Software System TR: TOs NA-84-1109G, NA-84-1110G											
6.1.1.1.2.1 Execute test executive											
6.1.1.1.2.2 Execute test editor											
6.1.1.1.2.3 Execute file manager											
6.1.1.1.2.4 Execute on-line compiler											
6.1.1.1.3 Test station operation TR: TOs 33D7-24-23-1, 33D7-24-23-8-1											
6.1.1.1.3.1 Perform initial power-up											
6.1.1.1.3.2 Perform Daily Turn-On/ Shut Down											
6.1.1.1.3.3 Perform Confidence Test											
6.1.1.1.3.4 Perform Diagnostic Test											
6.1.1.1.3.5 Perform Alignment											
6.1.1.1.4 Load and execute application programs using:											
6.1.1.1.4.1 HP 7906 Disk Drive TR: TO 31S5-4-953-32											
6.1.1.1.4.2 Bering Disk Drive											

C-17 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC	
6.1.1.1.5 Test Station Maintenance TR: TOs: 00-20-14, 33K-1-100, 33D7-33-194-1, 33D3-33-195-1, 33D3-33-197-11												
6.1.1.1.5.1 Perform Periodic Maintenance								-	-	-	-	
6.1.1.1.5.2 Perform Adjustments								-	-	-	-	
6.1.1.1.5.3 Isolate malfunctions using on-line Compiler								-	-	-	-	
6.1.1.1.5.4 Isolate malfunctions using Test Executive								-	-	-	-	
6.1.1.1.5.5 Calibrate Test Station								-	-	-	-	
6.1.1.1.5.6 Repair Test Station								-	-	-	-	
6.1.2 C-17 Automatic Test Equipment (CATE) Test Station TR: TO 33D7-24-34-1; 33D7-24-34-8-1												
6.1.2.1 Theory of Operation												
6.1.2.1.1 Druck Pneumatic Pressure Stimulus Cart								A	B	-	-	
6.1.2.1.2 Display Unit Test Set								A	B	-	-	
6.1.2.1.3 Measurement Subsystem								A	B	-	-	
6.1.2.1.4 Stimulus Subsystem								A	B	-	-	
6.1.2.1.5 Power Subsystem												
6.1.2.1.5.1 Test System Power								A	B	-	-	
6.1.2.1.5.2 LRU System Power								A	B	-	-	
6.1.2.1.6 Switching Subsystem								A	B	-	-	
6.1.2.1.7 Interface Connection Assembly								A	B	-	-	
6.1.2.1.8 Computer Subsystem and Peripherals								A	B	-	-	
6.1.2.2 Software System												
6.1.2.2.1 Execute Personal ATLAS Work Station (PAWS)								-	-	-	-	
6.1.2.2.2 Execute National Instruments Measurement Test Studio								-	-	-	-	
6.1.2.3 Test Station operation TR: TOs 33D7-24-34-1; 33D7-24-34-8-1												
6.1.2.3.1 Perform initial power-up								-	-	-	-	

C-17 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
6.1.2.3.2 Perform Daily Turn-On/Shut-Down	*							-	-	-	-
6.1.2.3.3 Perform Confidence Test	*							-	-	-	-
6.1.2.3.4 Perform Functional Test	*							-	-	-	-
6.1.2.3.5 Perform Tier 1 and Tier 2 CAL/VER Tests	*R							-	-	-	-
6.1.2.3.6 Perform Special Tests	*R							-	-	-	-
6.1.2.4 Test Station Maintenance TR: TOs : 33D7-24-34-1; 33D7-24-34-8-1											
6.1.2.4.1 Perform Periodic Maintenance	*							-	-	-	-
6.1.2.4.2 Isolate Malfunctions Using PAWS								-	-	-	-
6.1.2.4.3 Isolate malfunctions using Test Studio								-	-	-	-
6.1.2.4.4 Repair Test Station								-	-	-	-
6.1.3 Display Unit Test Set TR: TO 33B4-11-17-1											
6.1.3.1 Perform Initial/Daily Turn-On	*							-	-	-	-
6.1.3.2 Test Set Maintenance											
6.1.3.2.1 Perform Periodic Inspections	*							-	-	-	-
6.1.3.2.2 Isolate malfunctions								-	-	-	-
6.1.3.2.3 Repair Test Set								-	-	-	-
6.1.3.2.4 Perform Alignment	*							-	-	-	-
6.1.3.2.5 Calibrate Test Set		*R						-	-	-	-
6.1.4 Basic Interface Test Adapter											
6.1.4.1 Perform Wrap Around Test	*							-	-	-	-
6.1.4.2 Isolate and Repair Malfunction								-	-	-	-
6.1.4.3 Perform Periodic Inspections								-	-	-	-
6.1.5 Aerial Delivery Locks Control Panel TR: TOs 8D3-18-13-2, 8D3-18-13-8-1											
6.1.5.1 Theory of Operation								-	-	-	-
6.1.5.2 Perform Operational Check								-	-	-	-
6.1.5.3 Isolate/repair malfunctions								-	-	-	-

C-17 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
6.1.6 Aerial Delivery System Controller TR: TOs 8D3-34-2-2, 8D3-34-2-8-1											
6.1.6.1 Theory of Operation								-	-	-	-
6.1.6.2 Perform Operational Check								-	-	-	-
6.1.6.3 Isolate/repair malfunctions								-	-	-	-
6.1.7 Antiskid/Brake Temperature Monitor Control Unit TR: TOs 4B A8-42-2, 4B A8-42-8-1											
6.1.7.1 Theory of Operation								-	-	-	-
6.1.7.2 Perform Operational Check								-	-	-	-
6.1.7.2.1 Isolate/repair malfunctions								-	-	-	-
6.1.8 Air Data Computer TR: TOs 5N5-13-24-2, 5N5-13-24-8-1											
6.1.8.1 Theory of Operation								-	-	-	-
6.1.8.2 Perform Operational Check	*							-	-	-	-
6.1.8.3 Isolate/repair malfunctions		*						-	-	-	-
6.1.9 Actuator Flight Control Panel TR: TOs 5A44-12-2, 5A44-12-8-1											
6.1.9.1 Theory of Operation								-	-	-	-
6.1.9.2 Perform Operational Check								-	-	-	-
6.1.9.3 Isolate/repair malfunctions								-	-	-	-
6.1.10 Automatic Pilot Control Indicator TR: TOs 5A13-5-24-2, 5A13-5-24-8-1											
6.1.10.1 Theory of Operation								-	-	-	-
6.1.10.2 Perform Operational Check								-	-	-	-
6.1.10.3 Isolate/repair malfunctions								-	-	-	-
6.1.11 Central Aural Warning Computer TR: TOs 8C15-11-4-2, 8C15-11-4-8-1											
6.1.11.1 Theory of Operation								-	-	-	-
6.1.11.2 Perform Operational Check								-	-	-	-
6.1.11.3 Isolate/repair malfunctions								-	-	-	-

C-17 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
6.1.12 Cargo Delivery System Control Status Panel TR: TOs 8D3-18-12-2, 8D3-18-12-8-1												
6.1.12.1 Theory of Operation								-	-	-	-	
6.1.12.2 Perform Operational Check								-	-	-	-	
6.1.12.3 Isolate/repair malfunctions								-	-	-	-	
6.1.13 Communications Equipment Controller TR: TOs 12R2-4-255-2, 12R2-4-255-8-1												
6.1.13.1 Theory of Operation								-	-	-	-	
6.1.13.2 Perform Operational Check								-	-	-	-	
6.1.13.3 Isolate/repair malfunctions								-	-	-	-	
6.1.14 Communication-Navigation Equipment Controller TR: TOs 12R2-4-255-2, 12R2-4-255-8-2												
6.1.14.1 Theory of Operation								-	-	-	-	
6.1.14.2 Perform Operational Check								-	-	-	-	
6.1.14.3 Isolate/repair malfunctions								-	-	-	-	
6.1.15 Core Integrated Processor TR: TOs 5N5-13-29-2, 5N5-13-29-8-1												
6.1.15.1 Theory of Operation								-	-	-	-	
6.1.15.2 Perform Operational Check								-	-	-	-	
6.1.15.3 Isolate/repair malfunctions								-	-	-	-	
6.1.16 Data Entry Keyboard TR: TOs 5N5-13-23-2, 5N5-13-23-8-1												
6.1.16.1 Theory of Operation								-	-	-	-	
6.1.16.2 Perform Operational Check								-	-	-	-	
6.1.16.3 Isolate/repair malfunctions								-	-	-	-	
6.1.17 Mission Computer Display Unit TR: TOs 5N29-23-2, 5N29-13-23-8-1												
6.1.17.1 Theory of Operation								-	-	-	-	
6.1.17.2 Perform Operational Check								-	-	-	-	
6.1.17.3 Isolate/repair malfunctions								-	-	-	-	
6.1.18 Multifunction Display Unit TR: TOs 5N29-19-2, 5N29-19-8-1, 5N29-37-2												

C-17 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
6.1.18.1 Theory of Operation								-	-	-	-
6.1.18.2 Perform Operational Check	*							-	-	-	-
6.1.18.3 Isolate/repair malfunctions		*						-	-	-	-
6.1.18.4 Perform Guardband Alignment								-	-	-	-
6.1.19 Environmental Control System Controller TR: TOs 15 A8-5-88-2, 15A8-5-88-8-1											
6.1.19.1 Theory of Operation								-	-	-	-
6.1.19.2 Perform Operational Check	*							-	-	-	-
6.1.19.3 Isolate/repair malfunctions		*						-	-	-	-
6.1.20 Electronic Engine Control TR: TOs 8A3-5-56-2, 8A3-5-56-8-1											
6.1.20.1 Theory of Operation								-	-	-	-
6.1.20.2 Perform Operational Check								-	-	-	-
6.1.20.3 Isolate/repair malfunctions								-	-	-	-
6.1.21 Environmental System-Fire Detection Control Panel TR: TOs 8D24-41-2, 8D24-41-8-1											
6.1.21.1 Theory of Operation								-	-	-	-
6.1.21.2 Perform Operational Check								-	-	-	-
6.1.21.3 Isolate/repair malfunctions								-	-	-	-
6.1.22 Engine-Thrust Rating Panel Display TR: TOs 5E6-5-6-2, 5E6-5-6-8-1											
6.1.22.1 Theory of Operation								-	-	-	-
6.1.22.2 Perform Operational Check								-	-	-	-
6.1.22.3 Isolate/repair malfunctions								-	-	-	-
6.1.23 Flight Control Computer TR: TOs 5A7-3-45-2, 5A7-3-45-8-1											
6.1.23.1 Theory of Operation								-	-	-	-
6.1.23.2 Perform Operational Check								-	-	-	-
6.1.23.3 Isolate/repair malfunctions								-	-	-	-
6.1.24 Fluid Purity Controller TR: TOs 15X23-2-2, 15X23-2-8-1											
6.1.24.1 Theory of Operation								-	-	-	-
6.1.24.2 Perform Operational Check								-	-	-	-

C-17 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
6.1.24.3 Isolate/repair malfunctions								-	-	-	-
6.1.25 Fuel Quantity Computer TR: TOs 6J3-4-122-2, 6J3-4-122-8-1											
6.1.25.1 Theory of Operation								-	-	-	-
6.1.25.2 Perform Operational Check								-	-	-	-
6.1.25.3 Isolate/repair malfunctions								-	-	-	-
6.1.26 Fuel System-Engine Start Control Panel TR: TOs 8D24-40-2, 8D24-40-8-1											
6.1.26.1 Theory of Operation								-	-	-	-
6.1.26.2 Perform Operational Check	*							-	-	-	-
6.1.26.3 Isolate/repair malfunctions		*						-	-	-	-
6.1.27 Ground Refueling Control Panel TR: TOs 8D24-36-2, 8D24-36-8-1											
6.1.27.1 Theory of Operation								-	-	-	-
6.1.27.2 Perform Operational Check								-	-	-	-
6.1.27.3 Isolate/repair malfunctions								-	-	-	-
6.1.28 Hydraulic System Controller TR: TOs 8D26-4-2, 8D26-4-8-1											
6.1.28.1 Theory of Operation								-	-	-	-
6.1.28.2 Perform Operational Check								-	-	-	-
6.1.28.3 Isolate/repair malfunctions								-	-	-	-
6.1.29 Hydraulic System Control Panel TR: TOs 8D24-39-2, 8D24-39-8-1											
6.1.29.1 Theory of Operation								-	-	-	-
6.1.29.2 Perform Operational Check								-	-	-	-
6.1.29.3 Isolate/repair malfunctions								-	-	-	-
6.1.30 Head-Up Display Unit TR: TOs 5N29-22-2, 5N29-22-8-1											
6.1.30.1 Theory of Operation								-	-	-	-
6.1.30.2 Perform Operational Check	*							-	-	-	-
6.1.30.3 Isolate/repair malfunctions		*						-	-	-	-
6.1.30.4 Perform CRT Adjustment								-	-	-	-

C-17 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
6.1.31 Intercommunications Set Control TR: TOs 12R2-4-255-2, 12R2-4-255-8-3												
6.1.31.1 Theory of Operation								-	-	-	-	
6.1.31.2 Perform Operational Check								-	-	-	-	
6.1.31.3 Isolate/repair malfunctions								-	-	-	-	
6.1.32 Liquid Quantity Indicator TR: TOs 8C21-48-2, 8C21-48-8-1												
6.1.32.1 Theory of Operation								-	-	-	-	
6.1.32.2 Perform Operational Check								-	-	-	-	
6.1.32.3 Isolate/repair malfunctions								-	-	-	-	
6.1.33 Multifunction Control Panel TR: TOs 5N6-9-10-2, 5N6-9-10-8-1												
6.1.33.1 Theory of Operation								-	-	-	-	
6.1.33.2 Perform Operational Check								-	-	-	-	
6.1.33.3 Isolate/repair malfunctions								-	-	-	-	
6.1.34 Manifold Failure Detection Controller TR: TOs 6J28-4-2, 6J28-4-8-1												
6.1.34.1 Theory of Operation								-	-	-	-	
6.1.34.2 Perform Operational Check								-	-	-	-	
6.1.34.3 Isolate/repair malfunctions								-	-	-	-	
6.1.35 Propulsion Data Management Computer TR: TOs 5F1-7-6-2, 5F1-7-6-8-1												
6.1.35.1 Theory of Operation								-	-	-	-	
6.1.35.2 Perform Operational Check								-	-	-	-	
6.1.35.3 Isolate/repair malfunctions								-	-	-	-	
6.1.36 Spoiler Control-Electronic Flap Computer TR: TOs 5A6-3-46-2, 5A6-3-46-8-1												
6.1.36.1 Theory of Operation								-	-	-	-	
6.1.36.2 Perform Operational Check								-	-	-	-	
6.1.36.3 Isolate/repair malfunctions								-	-	-	-	
6.1.37 Signal Data Converter TR: TOs 12P5-4-88-2, 12P5-4-88-8-1												

C-17 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
6.1.37.1 Theory of Operation								-	-	-	-
6.1.37.2 Perform Operational Check								-	-	-	-
6.1.37.3 Isolate/repair malfunctions								-	-	-	-
6.1.38 Sensor Signals Interface TR: TOs 5F8-21-5-2, 5F8-21-5-8-1											
6.1.38.1 Theory of Operation								-	-	-	-
6.1.38.2 Perform Operational Check								-	-	-	-
6.1.38.3 Isolate/repair malfunctions								-	-	-	-
6.1.39 Video Integrated Processor TR: TOs 12P5-95-8-1; 12P5-4-95-2; 33D7-42-9-5-1											
6.1.39.1 Perform Operational Check	*							-	-	-	-
6.1.39.2 Isolate/Repair Malfunctions		*						-	-	-	-
6.1.40 Warning and Caution Annunciator Panel TR: TOs 8D15-9-30-2, 8D15-9-30-8-1											
6.1.40.1 Theory of Operation								-	-	-	-
6.1.40.2 Perform Operational Check								-	-	-	-
6.1.40.3 Isolate/repair malfunctions								-	-	-	-
6.1.41 Warning and Caution Computer TR: TOs 8D15-13-11-2, 8D15-13-11-8-1											
6.1.41.1 Theory of Operation								-	-	-	-
6.1.41.2 Perform Operational Check								-	-	-	-
6.1.41.3 Isolate/repair malfunctions								-	-	-	-
6.2 General Support Equipment											
6.2.1 Operate Theodolite TR: TO 49A8-20-1		*R						-	-	-	-
6.2.2 Operate/Maintain Electrical Load Bank TR: TO 35CA1-3-11-1								-	-	-	-
6.2.3 Operate Disk Cartridge Cleaner/Verifier TR: Vendor Manual (Model 450)								-	-	-	-
6.2.4 HUD Purge Set								-	-	-	-
6.2.5 Dessicator Test Set								-	-	-	-
6.2.6 OFPLS TR: TO 33D7-42-9-5-1											
6.2.6.1 Theory of Operation								-	-	-	-

C-17 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
6.2.6.2 Perform OFP loading/verifying	*							-	-	-	-
6.2.6.3 Perform TAWS database loading/verifying	*							-	-	-	-
6.2.6.4 Perform administration functions								-	-	-	-
6.2.6.5 Isolate/repair malfunctions								-	-	-	-
6.3 C-17 Specific Manual Systems											
6.3.1 Intercommunications Systems											
6.3.1.1 Public Address Amplifier TR: TO 12R2-4-301-2											
6.3.1.1.1 Perform maintenance testing								-	-	-	-
6.3.1.1.2 Alignment								-	-	-	-
6.3.1.1.3 Isolate/repair malfunctions								-	-	-	-
6.3.1.2 Public Address Control TR: TOs 12R2-4-255-2, 12R2-4-255-8-1											
6.3.1.2.1 Perform maintenance testing								-	-	-	-
6.3.1.2.2 Alignment								-	-	-	-
6.3.1.2.3 Isolate/repair malfunctions								-	-	-	-
6.3.1.3 Interphone Station Unit TR: TOs 12R2-4-255-2, 12R2-4-255-8-1											
6.3.1.3.1 Perform maintenance testing								-	-	-	-
6.3.1.3.2 Alignment								-	-	-	-
6.3.1.3.3 Isolate/repair malfunctions								-	-	-	-
6.3.2 Navigation Systems								-	-	-	-
6.3.2.1 Auto Direction Finder (ADF) RCV DFR-206A / ARN-149 TR: TO 2R5-4-103-52											
6.3.2.1.1 Perform maintenance testing								-	-	-	-
6.3.2.1.2 Alignment								-	-	-	-
6.3.2.1.3 Isolate/repair malfunctions								-	-	-	-
6.3.2.2 Color Weather Radar TR: TOs 12P6-2APS133-12, 12P6-2APS133-32, 12P6-2APS133-42											
6.3.2.2.1 RTA-1FB(M)											

C-17 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
6.3.2.2.1.1 Perform maintenance testing								-	-	-	-
6.3.2.2.1.2 Alignment								-	-	-	-
6.3.2.2.1.3 Isolate/Repair malfunctions								-	-	-	-
6.3.2.2.2 Radar Antenna AS-3440A TR: TO 12P6-2APS133-42											
6.3.2.2.2.1 Perform maintenance testing								-	-	-	-
6.3.2.2.2.2 Alignment								-	-	-	-
6.3.2.2.2.3 Isolate/repair malfunctions								-	-	-	-
6.3.2.2.3 Radar Control Box C-12034 TR: TO 12P6-2APS133-32											
6.3.2.2.3.1 Perform maintenance testing								-	-	-	-
6.3.2.2.3.2 Alignment								-	-	-	-
6.3.2.2.3.3 Isolate/repair malfunctions								-	-	-	-
6.3.2.3 Distance Measurement Equipment (DME)RT-1596/A TR: TO 12R5-4-238-2											
6.3.2.3.1 Perform maintenance testing								-	-	-	-
6.3.2.3.2 Alignment								-	-	-	-
6.3.2.3.3 Isolate/repair malfunctions								-	-	-	-
6.3.2.4 TACAN ARN-153 RT-374E-1 TR: TO 12R5-2ARN153-2											
6.3.2.4.1 Perform maintenance testing								-	-	-	-
6.3.2.4.2 Alignment								-	-	-	-
6.3.2.4.3 Isolate/repair malfunctions								-	-	-	-
6.3.2.5 Headsets											
6.3.2.5.1 Perform maintenance testing								-	-	-	-
6.3.2.5.2 Isolate/repair malfunctions								-	-	-	-
6.3.2.6 Direction Finding Antenna TR: TOs 12R5-4-154-2, 12R5-4-154-3											

C-17 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	(1) Course	(2) CDC
6.3.2.6.1 Perform maintenance testing								-	-	-	-
6.3.2.6.2 Alignment								-	-	-	-
6.3.2.6.3 Isolate/repair malfunctions								-	-	-	-

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
ATTACHMENT 7											
NOTE 1: All course requirements are trained in the 3-level resident wartime course. The 7-level in-residence course is not taught in wartime.											
NOTE 2: Users are responsible for annotating training references to identify current references pending STS revision											
NOTE 3: Items marked in columns 2a or 2b with a “*R” are optional core tasks for ANG and AFRC.											
NOTE 4: Address comments and recommended changes through the MAJCOM Functional Managers to the AETC Training Manager, DSN 736-7899.											
7 ATTACHMENT 7, F-16 TRAINING REQUIREMENTS											
7.1 F-16 AVIONICS INTERMEDIATE SHOPS (AIS) AND IMPROVED AIS (IAIS)											
7.1.1 SOFTWARE SYSTEM											
7.1.1.1 Theory of system software functions TR: TOs 33D7-38-111-1-series, 33D7-38-111-18-1, 33D7-38-111-81-1, 33D7-38-111-82, 33D7-38-111-88-series, 33D7-38-291-18-series											
7.1.1.1.1 Control & Support (C&S) Software											
7.1.1.1.1.1 Test Operating System (TOS)								-	-	-	-
7.1.1.1.1.2 Test Executive (TEX)								B	B	-	-
7.1.1.1.1.3 On-Line Compiler (OLC)								B	B	-	-
7.1.1.1.1.4 File Manager (FMX)								-	B	-	-
7.1.1.1.1.5 Change Analysis (CAP)								-	-	-	-
7.1.1.1.2 Test Software											
7.1.1.1.2.1 Automatic Test Equipment (ATE)											
7.1.1.1.2.1.1 Confidence Tests (CONF)								A	-	-	-
7.1.1.1.2.1.2 Diagnostic Tests (DIAG)								A	-	-	-
7.1.1.1.2.1.3 Alignment Tests (ALIN)								A	-	-	-
7.1.1.1.2.1.4 Calibration Tests (CALs)								A	-	-	-
7.1.1.1.2.2 Interface Test Adapter (ITA)								-	-	-	-
7.1.1.1.2.3 Line Replaceable Unit (LRU)								A	B	-	-
7.1.1.1.3 Utility programs											

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
7.1.1.1.3.1 Find Align								A	B	-	-
7.1.1.1.3.2 CALS Mods								-	B	-	-
7.1.1.1.4 Computer and peripherals diagnostics (HP DIAG) TR: TOs 33D7-38-108-1 33D7-38-108-8-1, 33D7-38-108-38-1											
7.1.1.2 Software procedures											
7.1.1.2.1 Execute software commands TR: TOs 33D7-38-111-1-series, 33D7-38-111-78-1, 33D7-38-111-81-1, 33D7-38-111-82, 33D7-38-111-88-1								-	-	-	-
7.1.1.2.1.1 Control & Support Software TR: TOs 33D7-38-111-1-series, 33D7-38-111-78-1, 33D7-38-111-81-1, 33D7-38-111-82, 33D7-38-111-88-1											
7.1.1.2.1.1.1 TOS								-	-	-	-
7.1.1.2.1.1.2 TEX	*							2b	-	-	-
7.1.1.2.1.1.3 OLC								2b	-	-	-
7.1.1.2.1.1.4 FMX								2b	-	-	-
7.1.1.2.1.1.5 CAP								-	-	-	-
7.1.1.2.2 Test Software											
7.1.1.2.2.1 ATE								2b	-	-	-
7.1.1.2.2.2 ITA								2b	-	-	-
7.1.1.2.2.3 LRU								2b	-	-	-
7.1.1.2.3 Utility programs											
7.1.1.2.3.1 Find Align								2b	-	-	-
7.1.1.2.3.2 CALS Mods								-	-	-	-
7.1.1.2.4 HP DIAG TR: TOs 33D7-38-108-1, 33D7-38-108-8-1, 33D7-38-108-38-1								-	-	-	-
7.1.1.2.5 Use Software Commands to isolate faults								2b	-	-	-
7.2 AIS COMMON TEST STATION COMPONENTS											
7.2.1 Theory of operation											

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
7.2.1.1 Computer subsystem and Peripherals TR: TOs 33D7-38-108 series, 33D7-47-115-1, 33DA7-77-1, 33DA104-10-series								-	A	-	-
7.2.1.2 Test station power/cooling TR: TOs 33D7-38-111-1-series, 33D7-38-111-51-series, 33D7-38-111-81-series, applicable test station TOs								-	A	-	-
7.2.1.3 Switching Unit Measurement and Stimulus Subsystem (SUMSS) TR: TOs 33D7-38-111-1-series, 33D7-38-111-51-series, 33D7-38-111-81-series, applicable test station TOs											
7.2.1.3.1 Switching CCA groups								-	B	-	-
7.2.1.3.2 Measurement (MSS) and Analog Interface Unit (AIU) CCA groups								-	B	-	-
7.2.1.3.3 Stimulus CCA group								-	B	-	-
7.2.1.3.4 Digital Interface Unit (DIU) CCA group								-	B	-	-
7.2.1.3.5 Synchro/resolver CCA group								-	B	-	-
7.2.1.3.6 Programmable Processor Control (PPC) CCA group								-	B	-	-
7.2.1.3.7 Power/cooling CCA groups								-	B	-	-
7.2.1.4 LRU power/cooling subsystems								-	B	-	-
7.2.2 Isolate/repair malfunctions											
7.2.2.1 Computer subsystem and peripherals								-	-	-	-
7.2.2.2 Test station power/cooling								-	-	-	-

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
7.2.2.3 SUMSS TR: TOs 33D7-38-111-1-series, 33D7-38-111-51-series, 33D7-38-111-81-series, applicable test station TOs											
7.2.2.3.1 Switching CCA group								-	-	-	-
7.2.2.3.2 MSS and AIU CCA groups								-	-	-	-
7.2.2.3.3 Stimulus CCA group								-	-	-	-
7.2.2.3.4 DIU CCA group								-	-	-	-
7.2.2.3.5 Synchro/resolver CCA group								-	-	-	-
7.2.2.3.6 PPC CCA group								-	-	-	-
7.2.2.3.7 Power/cooling CCA groups								-	-	-	-
7.2.2.4 LRU Power/cooling subsystems TR: applicable test station -2 TOs								-	-	-	-
7.3 AIS COMMON TEST STATION PROCEDURES TR: 33D7-38-111-1-series, 33D7-38-111-81-series, applicable test station TOs											
7.3.1 Emergency Shutdown								a	-	-	-
7.3.2 Classified Pre/Post Processing	*							2b	-	-	-
7.3.3 Perform manual alignment and adjustment of:											
7.3.3.1 SUMSS Shop Replaceable Units (SRUs)								-	-	-	-
7.3.3.2 LRU power/cooling subsystems								-	-	-	-
7.3.3.3 Electrical connector receptacle housing receiver pins and contacts (Virginia Patch Panel)											
7.3.3.3.1 Alignment of Virginia Patch Panel								-	-	-	-
7.4 COMPUTER/INERTIAL (C/I) TEST STATION											

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
7.4.1 Peculiar ATLAS statements TR: TOs 33D7-38-111-8-1, 33D7-38-111-71-1, 33D7-38-111-82, 33D7-38-111-88-1								-	B	-	-
7.4.2 Peculiar subsystems TR: TOs 33D7-3-181 series, 33D7-3-192-series, 33D7-3-279 series											
7.4.2.1 Theory of operation of:											
7.4.2.1.1 Self Test Adapter								-	-	-	-
7.4.2.1.2 TRUs											
7.4.2.1.2.1 Inertial Navigation Unit (INU) pedestal Subsystem								-	-	-	-
7.4.2.1.2.2 Rate Table								-	-	-	-
7.4.2.1.2.3 Rate Table Controller								-	-	-	-
7.4.2.1.2.4 A/D Converter								-	-	-	-
7.4.2.1.2.5 16 Channel Filter								-	-	-	-
7.4.2.1.2.6 Digital Multimeter								-	-	-	-
7.4.2.1.2.7 Dual Trace Oscilloscope								-	-	-	-
7.4.2.1.3 SUMSS SRUs											
7.4.2.1.3.1 INU/FCC Interface CCA group								-	B	-	-
7.4.2.1.3.2 Processor/Controller Interface CCA group								-	B	-	-
7.4.2.1.3.3 DAC CCA group								-	B	-	-
7.4.2.1.3.4 Discrete I/O CCA group								-	B	-	-
7.4.2.1.4 Power/cooling subsystems								-	-	-	-
7.4.2.2 Isolate/repair malfunctions											
7.4.2.2.1 Self Test Adapter								-	-	-	-
7.4.2.2.2 TRUs											
7.4.2.2.2.1 INU pedestal								-	-	-	-
7.4.2.2.2.2 Rate Table								-	-	-	-
7.4.2.2.2.3 Rate Table Controller								-	-	-	-
7.4.2.2.2.4 A/D Converter								-	-	-	-
7.4.2.2.2.5 16 Channel Filter								-	-	-	-
7.4.2.2.2.6 Digital Multimeter								-	-	-	-
7.4.2.2.2.7 Dual Trace Oscilloscope								-	-	-	-

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
7.4.2.2.3 SUMSS SRUs												
7.4.2.2.3.1 INU/FCC Interface CCA group								-	-	-	-	
7.4.2.2.3.2 Processor/Controller Interface CCA group								-	-	-	-	
7.4.2.2.3.3 DAC CCA group								-	-	-	-	
7.4.2.2.3.4 Discrete I/O CCA group								-	-	-	-	
7.4.2.2.4 Power/cooling subsystems								-	-	-	-	
7.4.2.3 Operating Procedures												
7.4.2.3.1 Prepare for Use/Shipment								-	-	-	-	
7.4.2.3.2 Perform Turn-on Procedure	*							-	-	-	-	
7.4.2.3.3 Perform Standby Procedure	*							-	-	-	-	
7.4.2.3.4 Perform Shutdown Procedure	*							-	-	-	-	
7.4.2.3.5 Perform Operator Inspection	*							-	-	-	-	
7.4.2.3.6 Perform Cleaning								-	-	-	-	
7.4.2.3.7 Perform periodic inspections												
7.4.2.3.7.1 30 day	*							-	-	-	-	
7.4.2.3.7.2 180 day		*						-	-	-	-	
7.4.2.3.7.3 360 day		*						-	-	-	-	
7.4.2.3.8 Perform semi-automatic tests												
7.4.2.3.8.1 CONF	*							-	-	-	-	
7.4.2.3.8.2 DIAG	*							-	-	-	-	
7.4.2.3.8.3 ALIN	*							-	-	-	-	
7.4.2.3.8.4 CALS		*						-	-	-	-	
7.4.2.3.9 Perform manual alignment and adjustment of:												
7.4.2.3.9.1 TRUs												
7.4.2.3.9.1.1 INU pedestal								-	-	-	-	
7.4.2.3.9.1.2 Rate Table								-	-	-	-	
7.4.2.3.9.1.3 Rate Table Controller								-	-	-	-	
7.4.2.3.9.1.4 A/D Converter								-	-	-	-	
7.4.2.3.9.1.5 Digital Multimeter								-	-	-	-	

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
7.4.2.3.9.2 SUMSS SRUs												
7.4.2.3.9.2.1 INU/FCC Interface CCA group								-	-	-	-	
7.4.2.3.9.2.2 Processor/Controller Interface CCA group								-	-	-	-	
7.4.2.3.9.2.3 DAC CCA group								-	-	-	-	
7.4.2.3.9.2.4 Discrete I/O CCA group								-	-	-	-	
7.4.2.3.9.3 Power/cooling subsystems								-	-	-	-	
7.4.2.3.10 Perform CALS and adjustments												
7.4.2.3.10.1 DMM								-	-	-	-	
7.4.3 C/I LRU and ITA maintenance												
7.4.3.1 Singer INU TR: TOs 5N1-4-11-series, 33D7-50-278-series, 33D7-50-279-series, 33D7-50-1135-series												
7.4.3.1.1 Theory of operation								-	-	-	-	
7.4.3.1.2 Operational check								-	-	-	-	
7.4.3.1.3 Isolate/repair malfunctions								-	-	-	-	
7.4.3.2 Fire Control Navigation Panel (FCNP) TR: TOs 5N14-3-15-series, 33D7-50-279-series, 33D7-50-1135-series												
7.4.3.2.1 Theory of operation								-	-	-	-	
7.4.3.2.2 Operational check								-	-	-	-	
7.4.3.2.3 Isolate/repair malfunctions								-	-	-	-	
7.4.3.3 Fire Control Computer (FCC), Expanded FCC (XFCU), and Enhanced FCC(EFCC), and EEFCC TR: TOs 11F12-1-series 33D7-50-284-series, 33D7-50-663-series TOs 11F12-1-series 33D7-50-284-series, 33D7-50-663-series												
7.4.3.3.1 Theory of operation								-	-	-	-	

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
7.4.3.3.2 Operational check								-	-	-	-
7.4.3.3.3 Isolate/repair malfunctions								-	-	-	-
7.4.3.4 Data Transfer Unit (DTU) TR: TOs 12S2-4-13-series, 33D7-24-29-series, 33D7-50-1027-series											
7.4.3.4.1 Theory of operation								-	-	-	-
7.4.3.4.2 Operational check								-	-	-	-
7.4.3.4.3 Isolate/repair malfunctions								-	-	-	-
7.4.3.5 Data Transfer Cartridge (DTC)and Expanded Data Transfer Cartridge (XDTC), and MDTC TR: TOs 12S2-4-11-series, 33D7-24-29-series, 33D7-50-1027-series											
7.4.3.5.1 Theory of operation								-	-	-	-
7.4.3.5.2 Operational check								-	-	-	-
7.4.3.5.3 Isolate/repair malfunctions								-	-	-	-
7.4.3.6 Flight Control Panel (FLCP) TR: TOs 5A13-5-20-series, 33D7-50-358-series											
7.4.3.6.1 Theory of operation								-	-	-	-
7.4.3.6.2 Operational check								-	-	-	-
7.4.3.6.3 Isolate/repair malfunctions								-	-	-	-
7.4.3.7 Rate Gyro Assembly (RGA) TR: TOs 5A11-2-77-series, 33D7-50-358-series											
7.4.3.7.1 Theory of operation								-	-	-	-
7.4.3.7.2 Operational check								-	-	-	-
7.4.3.7.3 Isolate/repair malfunctions								-	-	-	-

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
7.4.3.8 Accelerometer Assembly TR: TOs 5F2-33-series, 33D7-50-358-series												
7.4.3.8.1 Theory of operation								-	-	-	-	
7.4.3.8.2 Operational check								-	-	-	-	
7.4.3.8.3 Isolate/repair malfunctions								-	-	-	-	
7.4.3.9 Flight Control Computer (FLCC) TR: TOs 5A7-3-38-series, 33D7-50-286-series												
7.4.3.9.1 Theory of operation								-	-	-	-	
7.4.3.9.2 Operational check	*							-	-	-	-	
7.4.3.9.3 Isolate/repair malfunctions								-	-	-	-	
7.4.3.10 Electronic Component Assembly (ECA) TR: TOs 5F22-16-series, 33D7-50-288-series												
7.4.3.10.1 Theory of operation								-	-	-	-	
7.4.3.10.2 Operational check	*							-	-	-	-	
7.4.3.10.3 Isolate/repair malfunctions								-	-	-	-	
7.4.3.11 Data Entry Electronics Unit (DEEU), Enhanced Memory Extended Capabilities DEEU (EXDEEU) TR: TOs 12S2-4-10-series, 33D7-50-666-series												
7.4.3.11.1 Theory of operation								-	-	-	-	
7.4.3.11.2 Operational check								-	-	-	-	
7.4.3.11.3 Isolate/repair malfunctions								-	-	-	-	
7.4.3.12 Data Entry Display (DED) TR: TOs 12S2-4-9-series, 33D7-50-666-series												
7.4.3.12.1 Theory of operation								-	-	-	-	
7.4.3.12.2 Operational check								-	-	-	-	
7.4.3.12.3 Isolate/repair malfunctions								-	-	-	-	

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
7.4.3.13 Litton INU TR: TOs 5N1-4-15-series, 33D7-50-278-series, 33D7-50-1135-series												
7.4.3.13.1 Theory of operation								-	-	-	-	
7.4.3.13.2 Operational check								-	-	-	-	
7.4.3.13.3 Isolate/repair malfunctions								-	-	-	-	
7.4.3.14 Digital Flight Control Computer (DFLCC) TR: TOs 5A7-3-44-series, 33D7-50-1663-series	*											
7.4.3.14.1 Theory of operation								-	-	-	-	
7.4.3.14.2 Operational check								-	-	-	-	
7.4.3.14.3 Isolate/repair malfunctions								-	-	-	-	
7.4.3.15 General Avionics Computer (GAC) TR: TOs 11F13-14-9-series, 33D7-50-1362-series												
7.4.3.15.1 Theory of operation								-	-	-	-	
7.4.3.15.2 Operational check								-	-	-	-	
7.4.3.15.3 Isolate/repair malfunctions								-	-	-	-	
7.4.3.16 Modular Mission Computer (MMC)												
7.4.3.16.1 Theory of operation								-	-	-	-	
7.4.3.16.2 Operational check								-	-	-	-	
7.4.3.16.3 Isolate/repair malfunctions								-	-	-	-	
7.5 DISPLAYS/INDICATORS (D/I) TEST STATION												
7.5.1 Peculiar ATLAS statements TR: TOs 33D7-38-111-8-1, 33D7-38-111-71-1, 33D7-38-111-82, 33D7-38-111-88-1								-	B	-	-	
7.5.2 Peculiar subsystems TR: TOs 33D7-38-183-series, 33D7-77-32-series, 33D7-77-71-series												

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1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
7.5.2.1 Theory of operation of:												
7.5.2.1.1 Self Test Adapter								-	-	-	-	
7.5.2.1.2 TRUs												
7.5.2.1.2.1 Photometric Assembly								-	B	-	-	
7.5.2.1.2.2 Precision Programmable Current Source (PPCS)								-	-	-	-	
7.5.2.1.2.3 Raster Display Assembly								-	-	-	-	
7.5.2.1.2.4 Video Display Monitor								-	-	-	-	
7.5.2.1.3 SUMSS SRUs												
7.5.2.1.3.1 Discrete I/O CCA group								-	B	-	-	
7.5.2.1.3.2 D/I test CCA group								-	B	-	-	
7.5.2.1.4 Power/cooling subsystems								-	-	-	-	
7.5.2.2 Isolate/repair malfunctions												
7.5.2.2.1 Self Test Adapter								-	-	-	-	
7.5.2.2.2 TRUs												
7.5.2.2.2.1 Photometric Assembly								-	-	-	-	
7.5.2.2.2.2 PPCS								-	-	-	-	
7.5.2.2.2.3 Raster Display Assembly								-	-	-	-	
7.5.2.2.2.4 Video Display Monitor								-	-	-	-	
7.5.2.2.3 SUMSS SRUs												
7.5.2.2.3.1 Discrete I/O CCA group								-	-	-	-	
7.5.2.2.3.2 D/I test CCA group								-	-	-	-	
7.5.2.2.4 Power/cooling subsystems								-	-	-	-	
7.5.2.3 Operating Procedures												
7.5.2.3.1 Prepare for Use/Shipment								-	-	-	-	
7.5.2.3.2 Perform Turn-on Procedures	*							-	-	-	-	
7.5.2.3.3 Perform Standby Procedure	*							-	-	-	-	
7.5.2.3.4 Perform Shutdown Procedures	*							-	-	-	-	
7.5.2.3.5 Perform Operator Inspection	*							-	-	-	-	
7.5.2.3.6 Perform Cleaning								-	-	-	-	

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1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC	
7.5.2.3.7 Perform periodic inspections												
7.5.2.3.7.1 30 day	*							-	-	-	-	
7.5.2.3.7.2 180 day		*						-	-	-	-	
7.5.2.3.7.3 360 day		*						-	-	-	-	
7.5.2.3.8 Perform semi-automatic tests												
7.5.2.3.8.1 CONF	*							-	-	-	-	
7.5.2.3.8.2 DIAG	*							-	-	-	-	
7.5.2.3.8.3 ALIN	*							-	-	-	-	
7.5.2.3.8.4 CALS		*						-	-	-	-	
7.5.2.3.9 Perform manual alignment and adjustment of:												
7.5.2.3.9.1 TRUs												
7.5.2.3.9.1.1 Photometric Assembly								-	-	-	-	
7.5.2.3.9.1.2 PPCS								-	-	-	-	
7.5.2.3.9.1.3 Raster Display Assembly								-	-	-	-	
7.5.2.3.9.1.4 Video Display Monitor								-	-	-	-	
7.5.2.3.9.2 SUMSS SRUs												
7.5.2.3.9.2.1 Discrete I/O CCA group								-	-	-	-	
7.5.2.3.9.2.2 D/I test CCA group								-	-	-	-	
7.5.2.3.9.3 Power/cooling subsystems								-	-	-	-	
7.5.2.3.10 Calibrate and adjustment of:												
7.5.2.3.10.1 Photometric Assembly								-	-	-	-	
7.5.3 D/I LRU and ITA maintenance												
7.5.3.1 Head-Up Display Pilot s Display Unit (HUD PDU) TR: TOs 5N29-11-series, 33D7-50-291-series												
7.5.3.1.1 Theory of operation								-	-	-	-	
7.5.3.1.2 Operational check								-	-	-	-	
7.5.3.1.3 Isolate/repair malfunctions								-	-	-	-	

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
7.5.3.2 Head-Up Display Electronics Unit (HUD EU) TR: TOs 5N29-12-series, 33D7-50-263-series												
7.5.3.2.1 Theory of operation								-	-	-	-	
7.5.3.2.2 Operational check								-	-	-	-	
7.5.3.2.3 Isolate/repair malfunctions								-	-	-	-	
7.5.3.3 Radar Electro Optical Indicator Unit (REO IU) TR: TOs 12P1-4-22-series, 33D7-50-292-series												
7.5.3.3.1 Theory of operation								-	-	-	-	
7.5.3.3.2 Operational check								-	-	-	-	
7.5.3.3.3 Isolate/repair malfunctions								-	-	-	-	
7.5.3.4 Radar Electro Optical Electronic Unit (REO EU) TR: TOs 12P1-4-23-series, 33D7-50-273-series												
7.5.3.4.1 Theory of operation								-	-	-	-	
7.5.3.4.2 Operational check								-	-	-	-	
7.5.3.4.3 Isolate/repair malfunctions								-	-	-	-	
7.5.3.5 Attitude Director Indicator (ADI) TR: TOs 5F8-3-44-series, 33D7-50-290-series												
7.5.3.5.1 Theory of operation								-	-	-	-	
7.5.3.5.2 Operational check								-	-	-	-	
7.5.3.6 Horizontal Situation Indicator (HSI) TR: TOs 5F8-16-9-18-1, 33D7-50-290-series												
7.5.3.6.1 Theory of operation								-	-	-	-	
7.5.3.6.2 Operational check								-	-	-	-	
7.5.3.7 Azimuth Indicator (ALR-69) TR: TOs 12P3-2ALR-8-1, 33D7-50-401-series												
7.5.3.7.1 Theory of operation								-	-	-	-	

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
7.5.3.7.2 Operational check								-	-	-	-
7.5.3.7.3 Isolate/repair malfunctions								-	-	-	-
7.5.3.8 Programmable Display Generator (PDG), Upgraded PDG (UPDG), and XPDG TR: TOs 11F98-7-series, 33D7-50-665-series											
7.5.3.8.1 Theory of operation								-	-	-	-
7.5.3.8.2 Operational check	*							-	-	-	-
7.5.3.8.3 Isolate/repair malfunctions								-	-	-	-
7.5.3.9 Multifunction Display (MFD) TR: TOs 11F98-6-series, 33D7-50-664-series											
7.5.3.9.1 Theory of operation								-	-	-	-
7.5.3.9.2 Operational check	*							-	-	-	-
7.5.3.9.3 Isolate/repair malfunctions								-	-	-	-
7.5.3.10 Wide Angle Conventional Head-Up Display Unit (WAC HUD) TR: TOs 5N29-14-series, 33D7-50-668-series											
7.5.3.10.1 Theory of operation								-	-	-	-
7.5.3.10.2 Operational check	*R							-	-	-	-
7.5.3.10.3 Isolate/repair malfunctions								-	-	-	-
7.5.3.11 WAC Display Electronic Unit (WAC EU) TR: TOs 5N29-15-series, 33D7-50-669-series											
7.5.3.11.1 Theory of operation								-	-	-	-
7.5.3.11.2 Operational check								-	-	-	-
7.5.3.11.3 Isolate/repair malfunctions								-	-	-	-

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
7.5.3.12 Diffractive Optics Electronic Unit (DO EU) TR: TOs 5N29-15-series, 33D7-50-669-series												
7.5.3.12.1 Theory of operation								-	-	-	-	
7.5.3.12.2 Operational check								-	-	-	-	
7.5.3.12.3 Isolate/repair malfunctions								-	-	-	-	
7.5.3.13 Diffractive Optics Head-Up Display Unit (DO HUD DU) TR: TOs 5N29-20-series, 33D7-50-668-series												
7.5.3.13.1 Theory of operation								-	-	-	-	
7.5.3.13.2 Operational check	*R							-	-	-	-	
7.5.3.13.3 Isolate/repair malfunctions								-	-	-	-	
7.5.4 Calibrate HUD boresight fixture								-	-	-	-	
7.6 PROCESSOR/ PNEUMATIC (P/P) TEST STATION												
7.6.1 Peculiar ATLAS statements TR: TOs 33D7-38-111-8-1, 33D7-38-111-71-1, 33D7-38-111-82, 33D7-38-111-88-1								-	B	-	-	
7.6.2 Peculiar subsystems TR: TOs 33D7-3-180-series, 33D7-3-191-series, 33D7-3-282-series, 33D7-38-185-series												
7.6.2.1 Theory of operation of:												
7.6.2.1.1 Self Test Adapter								-	-	-	-	
7.6.2.1.2 TRUs												
7.6.2.1.2.1 Threat Simulator								-	B	-	-	
7.6.2.1.2.2 Video Display Monitor								-	-	-	-	
7.6.2.1.2.3 Pneumatic Function Controllers (PFCs) and Pneumatic Load Assembly								-	B	-	-	
7.6.2.1.2.4 Vacuum Pump and Manifold Assembly								-	-	-	-	

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
7.6.2.1.3 SUMSS SRUs												
7.6.2.1.3.1 P/P Test CCA group								-	B	-	-	
7.6.2.1.4 Power/cooling subsystems								-	-	-	-	
7.6.2.2 Isolate/repair malfunctions												
7.6.2.2.1 Self Test Adapter								-	-	-	-	
7.6.2.2.2 TRUs												
7.6.2.2.2.1 Threat Simulator								-	-	-	-	
7.6.2.2.2.2 Video Display Monitor								-	-	-	-	
7.6.2.2.2.3 PFCs/Pneumatic Load Assembly								-	-	-	-	
7.6.2.2.2.4 Vacuum Pump and Manifold Assembly								-	-	-	-	
7.6.2.2.3 SUMSS SRUs												
7.6.2.2.3.1 P/P Test CCA group								-	-	-	-	
7.6.2.2.4 Power/cooling subsystems								-	-	-	-	
7.6.2.3 Operating Procedures												
7.6.2.3.1 Prepare for Use/Shipment								-	-	-	-	
7.6.2.3.2 Perform Turn-on Procedures	*							-	-	-	-	
7.6.2.3.3 Perform Standby Procedure	*							-	-	-	-	
7.6.2.3.4 Perform Shutdown Procedures	*							-	-	-	-	
7.6.2.3.5 Perform Operator Inspection	*							-	-	-	-	
7.6.2.3.6 Perform Cleaning								-	-	-	-	
7.6.2.3.7 Perform periodic inspections												
7.6.2.3.7.1 30 day	*							-	-	-	-	
7.6.2.3.7.2 90 day								-	-	-	-	
7.6.2.3.7.3 180 day		*						-	-	-	-	
7.6.2.3.7.4 360 day		*						-	-	-	-	
7.6.2.3.8 Perform semi-automatic tests												
7.6.2.3.8.1 CONF	*							-	-	-	-	
7.6.2.3.8.2 DIAG	*							-	-	-	-	
7.6.2.3.8.3 ALIN	*							-	-	-	-	

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
7.6.2.3.8.4 CALS		*						-	-	-	-
7.6.2.3.9 Perform manual alignment and adjustment of:											
7.6.2.3.9.1 TRUs											
7.6.2.3.9.1.1 Threat Simulator								-	-	-	-
7.6.2.3.9.1.2 Video Display Monitor								-	-	-	-
7.6.2.3.9.1.3 Vacuum Pump and Manifold Assembly								-	-	-	-
7.6.2.3.9.2 SUMSS SRUs											
7.6.2.3.9.2.1 P/P Test CCA group								-	-	-	-
7.6.2.3.9.3 Power/cooling subsystems								-	-	-	-
7.6.2.3.10 Calibrate and Adjust											
7.6.2.3.10.1 PFCs								-	-	-	-
7.6.3 P/P LRU and ITA maintenance											
7.6.3.1 Radar Digital Signal Processor (AN/APG-66) TR: TOs 11F101-3-series, 33D7-50-276-series											
7.6.3.1.1 Theory of operation								-	-	-	-
7.6.3.1.2 Operational check								-	-	-	-
7.6.3.1.3 Isolate/repair malfunctions								-	-	-	-
7.6.3.2 Expanded Fire Control Radar Computer (XFCRC) (AN/APG-66) TR: TOs 11F12-5-11-series, 33D7-50-274-series											
7.6.3.2.1 Theory of operation								-	-	-	-
7.6.3.2.2 Operational check								-	-	-	-
7.6.3.2.3 Isolate/repair malfunctions								-	-	-	-
7.6.3.3 Stores Control Panel TR: TOs 11B61-2-12-series, 33D7-50-264-series											
7.6.3.3.1 Theory of operation								-	-	-	-
7.6.3.3.2 Operational check								-	-	-	-
7.6.3.3.3 Isolate/repair malfunctions								-	-	-	-

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC	
7.6.3.4 Missile Remote Interface Unit (MRIU) TR: TOs 11B95-5-series, 33D7-50-272-series												
7.6.3.4.1 Theory of operation								-	-	-	-	
7.6.3.4.2 Operational check								-	-	-	-	
7.6.3.4.3 Isolate/repair malfunctions								-	-	-	-	
7.6.3.5 Expanded Central Interface Unit (XCIU) TR: TOs 11B7-7-2-series, 33D7-50-275-series												
7.6.3.5.1 Theory of operation								-	-	-	-	
7.6.3.5.2 Operational check								-	-	-	-	
7.6.3.5.3 Isolate/repair malfunctions								-	-	-	-	
7.6.3.6 Jettison/Release Remote Interface Unit (J/R RIU) TR: TOs 11B95-4-series, 33D7-50-272-series												
7.6.3.6.1 Theory of operation								-	-	-	-	
7.6.3.6.2 Operational check								-	-	-	-	
7.6.3.6.3 Isolate/repair malfunctions								-	-	-	-	
7.6.3.7 Conventional Remote Interface Unit (CRIU) TR: TOs 11B95-6-series, 33D7-50-272-series												
7.6.3.7.1 Theory of operation								-	-	-	-	
7.6.3.7.2 Operational check								-	-	-	-	
7.6.3.7.3 Isolate/repair malfunctions								-	-	-	-	
7.6.3.8 Special Weapons Remote Interface Unit (NRIU) TR: TOs 11N-T5090-series, 11N-T5094-series												
7.6.3.8.1 Theory of operation								-	-	-	-	
7.6.3.8.2 Operational check								-	-	-	-	
7.6.3.8.3 Isolate/repair malfunctions								-	-	-	-	

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
7.6.3.9 Ruggedized Nuclear Remote Interface Unit (RNRIU) TR: TOs 11N-T5094-series, 11N-T5170-series												
7.6.3.9.1 Theory of operation								-	-	-	-	
7.6.3.9.2 Operational check								-	-	-	-	
7.6.3.9.3 Isolate/repair malfunctions								-	-	-	-	
7.6.3.10 Pneumatic Sensor Assembly (PSA) (Rosemount) TR: TOs 5F25-9-series, -50-293-series												
7.6.3.10.1 Theory of operation								-	-	-	-	
7.6.3.10.2 Operational check								-	-	-	-	
7.6.3.10.3 Isolate/repair malfunctions								-	-	-	-	
7.6.3.11 PSA (Airesearch) TR: TOs 5F25-12-series, 33D7-50-293-series												
7.6.3.11.1 Theory of operation								-	-	-	-	
7.6.3.11.2 Operational check								-	-	-	-	
7.6.3.11.3 Isolate/repair malfunctions								-	-	-	-	
7.6.3.12 Central Air Data Computer (CADC) TR: TOs 5F5-4-28-series, 33D7-50-262-series												
7.6.3.12.1 Theory of operation								-	-	-	-	
7.6.3.12.2 Operational check								-	-	-	-	
7.6.3.12.3 Isolate/repair malfunctions								-	-	-	-	
7.6.3.13 Transmission Line Coupler (TLC) TR: TOs 12P3-2ALR69-42-series, 33D7-50-403-series												
7.6.3.13.1 Theory of operation								-	-	-	-	
7.6.3.13.2 Operational check								-	-	-	-	
7.6.3.13.3 Isolate/repair malfunctions								-	-	-	-	

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
7.6.3.14 Signal Processor (SP) (AN/ALR-69) TR: TOs 12P3-2ALR69-series, 33D7-50-403-series												
7.6.3.14.1 Theory of operation								-	-	-	-	
7.6.3.14.2 Operational check								-	-	-	-	
7.6.3.14.3 Isolate/repair malfunctions								-	-	-	-	
7.6.3.15 Advanced Central Interface Unit (ACIU) TR: TOs 11B47-7-4-series, 33D7-50-670-series												
7.6.3.15.1 Theory of operation								-	-	-	-	
7.6.3.15.2 Operational check	*							-	-	-	-	
7.6.3.15.3 Isolate/repair malfunctions								-	-	-	-	
7.6.3.16 Enhanced Central Interface Unit (ECIU) TR: TOs 11B95-12-series, 33D7-50-670-series												
7.6.3.16.1 Theory of operation								-	-	-	-	
7.6.3.16.2 Operational check	*							-	-	-	-	
7.6.3.16.3 Isolate/repair malfunctions								-	-	-	-	
7.6.3.17 Advanced Missile Remote Interface Unit (AMRIU) TR: TOs 11B95-10-series, 33D7-50-697-series												
7.6.3.17.1 Theory of operation								-	-	-	-	
7.6.3.17.2 Operational check								-	-	-	-	
7.6.3.17.3 Isolate/repair malfunctions								-	-	-	-	
7.6.3.18 Enhanced Missile Remote Interface Unit (EMRIU) TR: TOs 11B95-11-series, 33D7-50-697-series												
7.6.3.18.1 Theory of operation								-	-	-	-	

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
7.6.3.18.2 Operational check								-	-	-	-
7.6.3.18.3 Isolate/repair malfunctions								-	-	-	-
7.6.3.19 Advanced Conventional Remote Interface Unit (ACRIU) TR: TOs 11B95-8-series, 33D7-50-697-series											
7.6.3.19.1 Theory of operation								-	-	-	-
7.6.3.19.2 Operational check								-	-	-	-
7.6.3.19.3 Isolate/repair malfunctions								-	-	-	-
7.6.3.20 Programmable Signal Processor (PSP), and MPSP (AN/APG-68) TR: TOs 11F101-5-series, 33D7-50-667-series											
7.6.3.20.1 Theory of operation								-	-	-	-
7.6.3.20.2 Operational check	*							-	-	-	-
7.6.3.20.3 Isolate/repair malfunctions								-	-	-	-
7.6.3.21 Advanced Programmable Signal Processor (APSP) (AN/APG-68) TR: TOs 11F101-5-series, 33D7-50-667-series											
7.6.3.21.1 Theory of operation								-	-	-	-
7.6.3.21.2 Operational check	*							-	-	-	-
7.6.3.21.3 Isolate/repair malfunctions								-	-	-	-
7.7 RADIO FREQUENCY (RF) TEST STATION											
7.7.1 Peculiar ATLAS statements TR: TOs 33D7-38-111-8-1, 33D7-38-111-71-1, 33D7-38-111-82, 33D7-38-111-88-1								-	B	-	-
7.7.2 Peculiar subsystems TR: TOs 33D7-38-184-1, 33D7-38-248-1, 33DA57-3-1											

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1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
7.7.2.1 Theory of operation of:												
7.7.2.1.1 Self Test Adapter								-	-	-	-	
7.7.2.1.2 TRUs												
7.7.2.1.2.1 Microwave Stimulus Interface (MSI)								-	B	-	-	
7.7.2.1.2.2 Microwave Measurement Unit (MMU)								-	B	-	-	
7.7.2.1.2.3 Phase Noise Chassis (PNC)								-	B	-	-	
7.7.2.1.2.4 Synthesized Signal Generators (SSGs)								-	-	-	-	
7.7.2.1.2.5 RF Switch Panel								-	B	-	-	
7.7.2.1.2.6 Power Meter Assembly								-	B	-	-	
7.7.2.1.2.7 Pressure Test Set (PTS)								-	-	-	-	
7.7.2.1.3 SUMSS SRUs												
7.7.2.1.3.1 R/F Test CCA group								-	B	-	-	
7.7.2.1.4 Power/cooling subsystems								-	-	-	-	
7.7.2.2 Isolate/repair malfunctions												
7.7.2.2.1 Self Test Adapter								-	-	-	-	
7.7.2.2.2 TRUs												
7.7.2.2.2.1 MSI								-	-	-	-	
7.7.2.2.2.2 MMU								-	-	-	-	
7.7.2.2.2.3 PNC								-	-	-	-	
7.7.2.2.2.4 SSGs								-	-	-	-	
7.7.2.2.2.5 RF Switch Panel								-	-	-	-	
7.7.2.2.2.6 Power Meter Assembly								-	-	-	-	
7.7.2.2.2.7 PTS								-	-	-	-	
7.7.2.2.3 SUMSS SRUs												
7.7.2.2.3.1 R/F Test CCA group								-	-	-	-	
7.7.2.2.4 Power/cooling subsystems								-	-	-	-	
7.7.2.3 Operating Procedures												
7.7.2.3.1 Prepare for Use/Shipment								-	-	-	-	
7.7.2.3.2 Perform Turn-on Procedures	*							2b	-	-	-	
7.7.2.3.3 Perform Standby Procedure	*							2b	-	-	-	
7.7.2.3.4 Perform Shutdown Procedures	*							-	-	-	-	

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1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
7.7.2.3.5 Perform Operator Inspection	*							2b	-	-	-
7.7.2.3.6 Perform Cleaning								-	-	-	-
7.7.2.3.7 Perform periodic inspections											
7.7.2.3.7.1 30 day	*							-	-	-	-
7.7.2.3.7.2 180 day		*						-	-	-	-
7.7.2.3.7.3 360 day		*						-	-	-	-
7.7.2.3.8 Perform semi-automatic tests											
7.7.2.3.8.1 CONF	*							2b	-	-	-
7.7.2.3.8.2 DIAG	*							-	-	-	-
7.7.2.3.8.3 ALIN	*							-	-	-	-
7.7.2.3.8.4 CALS		*						-	-	-	-
7.7.2.3.9 Perform manual alignments and adjustments											
7.7.2.3.9.1 SUMSS SRUs											
7.7.2.3.9.1.1 R/F Test CCA Group								-	-	-	-
7.7.2.3.9.2 Power/cooling subsystems								-	-	-	-
7.7.2.3.10 Perform Calibration and Adjustment											
7.7.2.3.10.1 Power Meter								-	-	-	-
7.7.2.3.10.2 SSGs								-	-	-	-
7.7.3 RF LRU and ITA Maintenance											
7.7.3.1 Radar Transmitter (AN/APG-66) TR: TOs 11F45-2-14-series, 33D7-50-277-series											
7.7.3.1.1 Theory of operation								-	-	-	-
7.7.3.1.2 Operational check								-	-	-	-
7.7.3.1.3 Isolate/repair malfunctions								-	-	-	-
7.7.3.2 Radar Low Power RF (LPRF) (AN/APG-66) TR: TOs 11F45-2-15-series, 33D7-50-282-series											
7.7.3.2.1 Theory of operation								-	-	-	-
7.7.3.2.2 Operational check								-	-	-	-

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
7.7.3.2.3 Isolate/repair malfunctions								-	-	-	-
7.7.3.3 Radar Antenna (AN/APG-66) TR: TOs 11F5-29-series, 33D7-50-283-series											
7.7.3.3.1 Theory of operation								-	-	-	-
7.7.3.3.2 Operational check								-	-	-	-
7.7.3.3.3 Isolate/repair malfunctions								-	-	-	-
7.7.3.4 E-J Amplifier Detector (AM-6639/ALR-46) TR: TOs 12P3-2ALR46-18-1, 33D7-50-402-series											
7.7.3.4.1 Theory of operation								-	-	-	-
7.7.3.4.2 Operational check								-	-	-	-
7.7.3.4.3 Isolate/repair malfunctions								-	-	-	-
7.7.3.5 C-D Amplifier Detector (AM-6971/ALR-69) TR: TOs 12P3-2ALR69-68-1, 33D7-50-402-series											
7.7.3.5.1 Theory of operation								-	-	-	-
7.7.3.5.2 Operational check								-	-	-	-
7.7.3.5.3 Isolate/repair malfunctions								-	-	-	-
7.7.3.6 Frequency Selective Receiver System (FSRS) Receiver (ALR-69) TR: TOs 12P3-2ALR69-12(C), 12P3-2ALR69-18-2, 33D7-50-402-series											
7.7.3.6.1 Theory of operation								-	-	-	-
7.7.3.6.2 Operational check								-	-	-	-
7.7.3.6.3 Isolate/repair malfunctions								-	-	-	-
7.7.3.7 FSRS Receiver/Controller (ALR-69) TR: TOs 12P3-2ALR69-12(C), 12P3-2ALR69-28-2, 33D7-50-554-series											
7.7.3.7.1 Theory of operation								-	-	-	-
7.7.3.7.2 Operational check								-	-	-	-

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
7.7.3.7.3 Isolate/repair malfunctions								-	-	-	-
7.7.3.8 Dual Mode Transmitter (DMT) (AN/APG-68) TR: TOs 11F45-2-16-series, 33D7-50-704-series											
7.7.3.8.1 Theory of operation								-	-	-	-
7.7.3.8.2 Operational check	*							-	-	-	-
7.7.3.8.3 Isolate/repair malfunctions								-	-	-	-
7.7.3.9 Radar Modular Low Power RF (MLPRF) (AN/APG-68) TR: TOs 11F45-2-17-series, 33D7-50-671-series											
7.7.3.9.1 Theory of operation								-	-	-	-
7.7.3.9.2 Operational check	*							-	-	-	-
7.7.3.9.3 Isolate/repair malfunctions								-	-	-	-
7.7.3.10 Radar Antenna (AN/APG-68) TR: TOs 11F5-31-series, 33D7-50-944-series											
7.7.3.10.1 Theory of operation								-	-	-	-
7.7.3.10.2 Operational check								-	-	-	-
7.7.3.10.3 Isolate/repair malfunctions								-	-	-	-
7.7.3.11 Advanced IFF (AIFF) R/T TR: TOs 12P4-2APX109-series, 33D7-50-1699-series											
7.7.3.11.1 Theory of operation								-	-	-	-
7.7.3.11.2 Operational check								-	-	-	-
7.7.3.11.3 Isolate/repair malfunctions								-	-	-	-
7.7.3.12 IFF R/T (AN/APX-101) TR: TOs 12P4-2APX101 series, 33D7-50-281 series											
7.7.3.12.1 Theory of operation								-	-	-	-
7.7.3.12.2 Operational check								-	-	-	-

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level	5 Skill Level	7 Skill Level	
								(1) Course	(1) CDC	(1) Course	(2) CDC
7.7.3.12.3 Isolate/repair malfunctions								-	-	-	-
7.8 IAIS TEST STATION											
7.8.1 Emergency Shutdown								a	-	-	-
7.8.2 Classified Pre/Post Processing TR: TO 33D7-38-291-2	*							2b	-	-	-
7.8.3 Peculiar ATLAS statements TR: TO 33D7-38-291-18-2								-	B	-	-
7.8.4 Peculiar subsystems TR: TO 33D7-38-291 series											
7.8.4.1 Theory of operation											
7.8.4.1.1 Interface Unit (IU)								A	B	-	-
7.8.4.1.2 Control and Display Unit (CDU)								A	B	-	-
7.8.4.1.3 Instrument Unit A (IUA)								A	B	-	-
7.8.4.1.4 Instrument Unit B (IUB)								A	B	-	-
7.8.4.1.5 Microwave Stimulus Unit (MSU)								B	B	-	-
7.8.4.1.6 Microwave Measurement Unit (MMU)								B	B	-	-
7.8.4.1.7 Power Control Unit (PCU)								A	B	-	-
7.8.4.1.8 Power Supply Unit (PSU)								A	B	-	-
7.8.4.1.9 Refrigeration Unit								A	B	-	-
7.8.4.1.10 Blower Unit								A	B	-	-
7.8.4.1.11 Frequency changer unit (FCU)								A	B	-	-
7.8.4.1.12 Optical Test Bench (OTB)								B	B	-	-
7.8.4.2 Isolate/repair malfunctions											
7.8.4.2.1 IU								-	-	-	-
7.8.4.2.2 CDU								-	-	-	-
7.8.4.2.3 IUA								2b	-	-	-
7.8.4.2.4 IUB								2b	-	-	-
7.8.4.2.5 MSU								-	-	-	-
7.8.4.2.6 MMU								-	-	-	-
7.8.4.2.7 PSU								-	-	-	-
7.8.4.2.8 PCU								-	-	-	-
7.8.4.2.9 Refrigeration unit								-	-	-	-
7.8.4.2.10 Blower unit								-	-	-	-

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
7.8.4.2.11 FCU								-	-	-	-
7.8.4.2.12 OTB								-	-	-	-
7.8.4.3 Operating Procedures											
7.8.4.3.1 Prepare for use and shipment								-	-	-	-
7.8.4.3.2 Perform Turn-on Procedures	*							2b	-	-	-
7.8.4.3.3 Perform Standby Procedure	*							2b	-	-	-
7.8.4.3.4 Perform Shutdown Procedures	*							-	-	-	-
7.8.4.3.5 Perform Operator Inspection	*							2b	-	-	-
7.8.4.3.6 Perform Cleaning								-	-	-	-
7.8.4.3.7 Perform Software Updates	*							-	-	-	-
7.8.4.4 Perform periodic inspections											
7.8.4.4.1 30 day	*							-	-	-	-
7.8.4.4.2 90 day	*							-	-	-	-
7.8.4.4.3 180 day		*						-	-	-	-
7.8.4.5 Perform semi-automatic tests											
7.8.4.5.1 CONF	*							2b	-	-	-
7.8.4.5.2 DIAG	*							2b	-	-	-
7.8.4.5.3 ALIN	*							2b	-	-	-
7.8.4.5.4 CALS		*						-	-	-	-
7.8.4.6 Perform manual alignment and adjustment of:											
7.8.4.6.1 IU								-	-	-	-
7.8.4.6.2 IUA								2b	-	-	-
7.8.4.6.3 IUB								2b	-	-	-
7.8.4.6.4 PCU								-	-	-	-
7.8.4.6.5 PSU								-	-	-	-
7.8.4.6.6 Blower unit								2b	-	-	-
7.8.4.6.7 FCU								-	-	-	-
7.8.4.6.8 OTB	*							2b	-	-	-
7.8.4.7 IAIS LRU and ITA maintenance											
7.8.4.7.1 Data Transfer Unit (DTU) TR: TOs 12S2-4-13-series, 33D7-50-1897-1											

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
7.8.4.7.1.1 Theory of operation								-	-	-	-
7.8.4.7.1.2 Operational check								-	-	-	-
7.8.4.7.1.3 Isolate/repair malfunctions								-	-	-	-
7.8.4.7.2 Expanded Data Transfer Cartridge (XDTC), and MDTC TR: TOs 12S2-4-11-series, 33D7-50-1897-1											
7.8.4.7.2.1 Theory of operation								-	-	-	-
7.8.4.7.2.2 Operational check								-	-	-	-
7.8.4.7.2.3 Isolate/repair malfunctions								-	-	-	-
7.8.4.7.3 Flight Control Computer (FLCC) TR: TOs 5A7-3-38-series, 33D7-28-35-2, 33D7-50-1898-1											
7.8.4.7.3.1 Theory of operation								-	-	-	-
7.8.4.7.3.2 Operational check	*							-	-	-	-
7.8.4.7.3.3 Isolate/repair malfunctions								-	-	-	-
7.8.4.7.4 Electronic Component Assembly (ECA) TR: TOs 5F22-16-series, 33D7-28-35-2, 33D7-50-1900-1											
7.8.4.7.4.1 Theory of operation TR: TOs 12S2-4-10-series, 33D7-50-1907-1											
7.8.4.7.4.2 Operational check	*							-	-	-	-
7.8.4.7.4.3 Isolate/repair malfunctions								-	-	-	-
7.8.4.7.5 Data Entry Electronics Unit (DEEU) and Enhanced Memory Extended Capabilities DEEU (EXDEEU) TR: TOs 12S2-4-10-series, 33D7-50-1907-1											
7.8.4.7.5.1 Theory of operation								-	-	-	-
7.8.4.7.5.2 Operational check								-	-	-	-

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
7.8.4.7.5.3 Isolate/repair malfunctions								-	-	-	-
7.8.4.7.6 Fire Control Computer (FCC), Enhanced Fire Control Computer (EFCC), Expanded FCC (XFCC), and EEFCC TR: TOs 11F12-1-series, 33D7-28-35-2, 33D7-50-1911-1											
7.8.4.7.6.1 Theory of operation								-	-	-	-
7.8.4.7.6.2 Operational check								-	-	-	-
7.8.4.7.6.3 Isolate/repair malfunctions								-	-	-	-
7.8.4.7.7 Digital Flight Control Computer (DFLCC) TR: TOs 5A7-3-44-series, 33D7-28-35-2, 33D7-50-1899-1											
7.8.4.7.7.1 Theory of operation								-	-	-	-
7.8.4.7.7.2 Operational check	*							-	-	-	-
7.8.4.7.7.3 Isolate/repair malfunctions								-	-	-	-
7.8.4.7.8 General Avionics Computer (GAC) TR: TOs 11F13-14-9-series, 33D7-50-1901-1											
7.8.4.7.8.1 Theory of operation								-	-	-	-
7.8.4.7.8.2 Operational check								-	-	-	-
7.8.4.7.8.3 Isolate/repair malfunctions								-	-	-	-
7.8.4.7.8.4 Modular Mission Computer (MMC)											
7.8.4.7.8.4.1 Theory of operation								-	-	-	-
7.8.4.7.8.4.2 Operational check								-	-	-	-
7.8.4.7.8.4.3 Isolate/repair malfunctions								-	-	-	-
7.8.4.7.9 Programmable Display Generator (PDG), upgrade PDG (UPDG), and XPDG TR: TOs 11F98-7-series, 33D7-50-1912-1, 11F98-8-series											

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
7.8.4.7.9.1 Theory of operation								-	-	-	-
7.8.4.7.9.2 Operational check	*							-	-	-	-
7.8.4.7.9.3 Isolate/repair malfunctions								-	-	-	-
7.8.4.7.10 Multifunction Display (MFD), and CMFD TR: TOs 11F98-6-series, 33D7-50-1903-1											
7.8.4.7.10.1 Theory of operation								-	-	-	-
7.8.4.7.10.2 Operational check	*							-	-	-	-
7.8.4.7.10.3 Isolate/repair malfunctions								-	-	-	-
7.8.4.7.11 Wide Angle Conventional Head-Up Display Unit (WAC HUD) TR: TOs 5N29-14-series, 33D7-50-1908-1											
7.8.4.7.11.1 Theory of operation								-	-	-	-
7.8.4.7.11.2 Operational check	*R							2b	-	-	-
7.8.4.7.11.3 Isolate/repair malfunctions								-	-	-	-
7.8.4.7.12 WAC Display Electronic Unit (WAC EU) TR: TOs 5N29-15-series, 33D7-28-35-2, 33D7-50-1909-1											
7.8.4.7.12.1 Theory of operation								-	-	-	-
7.8.4.7.12.2 Operational check								-	-	-	-
7.8.4.7.12.3 Isolate/repair malfunctions								-	-	-	-
7.8.4.7.13 Diffractive Optics Electronic Unit (DO EU) TR: TOs 5N29-15-series, 33D7-50-1908-1											
7.8.4.7.13.1 Theory of operation								-	-	-	-
7.8.4.7.13.2 Operational check								-	-	-	-
7.8.4.7.13.3 Isolate/repair malfunctions								-	-	-	-

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
7.8.4.7.14 Diffractive Optics Head-Up Display Unit (DO HUD DU) TR: TOs 5N29-20-series, 33D7-50-1909-1											
7.8.4.7.14.1 Theory of operation								-	-	-	-
7.8.4.7.14.2 Operational check	*R							-	-	-	-
7.8.4.7.14.3 Isolate/repair malfunctions								-	-	-	-
7.8.4.7.14.4 Calibrate Hud Boresight Fixture								-	-	-	-
7.8.4.7.15 Signal Processor (AN/ALR-69) TR: TOs 12P3-2ALR69-series, 33D7-50-1970-1											
7.8.4.7.15.1 Theory of operation								-	-	-	-
7.8.4.7.15.2 Operational check								-	-	-	-
7.8.4.7.15.3 Isolate/repair malfunctions								-	-	-	-
7.8.4.7.16 Advanced Central Interface Unit (ACIU) TR: TOs 11B47-7-4-series, 33D7-50-1910-1											
7.8.4.7.16.1 Theory of operation								-	-	-	-
7.8.4.7.16.2 Operational check								-	-	-	-
7.8.4.7.16.3 Isolate/repair malfunctions								-	-	-	-
7.8.4.7.17 Enhanced Central Interface Unit (ECIU) TR: TOs 11B95-12-series, 33D7-50-1910-1											
7.8.4.7.17.1 Theory of operation								-	-	-	-
7.8.4.7.17.2 Operational check	*							-	-	-	-
7.8.4.7.17.3 Isolate/repair malfunctions								-	-	-	-
7.8.4.7.18 Programmable Signal Processor (PSP) (AN/APG-68) TR: TOs 11F101-5-series, 33D7-50-1902-1											
7.8.4.7.18.1 Theory of operation								-	-	-	-
7.8.4.7.18.2 Operational check	*							-	-	-	-

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
7.8.4.7.18.3 Isolate/repair malfunctions								-	-	-	-
7.8.4.7.19 Advanced Programmable Signal Processor(APSP), and NPSP (AN/APG-68) TR: TOs 11F101-5-2-series, 33D7-50-1902-1											
7.8.4.7.19.1 Theory of operation								-	-	-	-
7.8.4.7.19.2 Operational check	*							-	-	-	-
7.8.4.7.19.3 Isolate/repair malfunctions								-	-	-	-
7.8.4.7.20 Radar Modular Low Power RF (MLPRF) (AN/APG-68) TR: TOs 11F45-2-17-series, 33D7-50-1904-1											
7.8.4.7.20.1 Theory of operation								-	-	-	-
7.8.4.7.20.2 Operational check	*							2b	-	-	-
7.8.4.7.20.3 Isolate/repair malfunctions								-	-	-	-
7.8.4.7.21 Radar Antenna (AN/APG-68) TR: TOs 11F5-31-series, 33D7-50-1905-1											
7.8.4.7.21.1 Theory of operation								-	-	-	-
7.8.4.7.21.2 Operational check	*							-	-	-	-
7.8.4.7.21.3 Isolate/repair malfunctions								-	-	-	-
7.8.4.7.22 Dual Mode Transmitter (DMT) (AN/APG-68) TR: TOs 11F45-2-16-series, 33D7-50-1906-1											
7.8.4.7.22.1 Theory of operation								-	-	-	-
7.8.4.7.22.2 Operational check	*							-	-	-	-
7.8.4.7.22.3 Isolate/repair malfunctions								-	-	-	-
7.8.4.7.23 IFF R/T (AN/APX101) TR: TOs 12P4-2APX101 series, 33D7-50-281 series											
7.8.4.7.23.1 Theory of operation								-	-	-	-
7.8.4.7.23.2 Operational check								-	-	-	-

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
7.8.4.7.23.3 Isolate/repair malfunctions								-	-	-	-
7.8.4.7.24 Advanced Conventional Remote Interface Unit (ACRIU) TR: TOs 11B95-8-series, 33D7-50-697-series											
7.8.4.7.24.1 Theory of operation								-	-	-	-
7.8.4.7.24.2 Operational check								-	-	-	-
7.8.4.7.24.3 Isolate/repair malfunctions								-	-	-	-
7.8.4.7.25 Advanced Missile Remote Interface Unit (AMRIU) TR: TOs 11B95-10-series, 33D7-50-697-series											
7.8.4.7.25.1 Theory of operation								-	-	-	-
7.8.4.7.25.2 Operational check								-	-	-	-
7.8.4.7.25.3 Isolate/repair malfunctions								-	-	-	-
7.8.4.7.26 Jettison/Release Remote Interface Unit (J/R RIU) TR: TOs 11B95-4-series, 33D7-50-272-series											
7.8.4.7.26.1 Theory of operation								-	-	-	-
7.8.4.7.26.2 Operational check								-	-	-	-
7.8.4.7.26.3 Isolate/repair malfunctions								-	-	-	-
7.8.4.7.27 Flight Control Panel (FLCP) TR: TOs 5A13-5-20-series, 33D7-50-358-series											
7.8.4.7.27.1 Theory of operation								-	-	-	-
7.8.4.7.27.2 Operational check								-	-	-	-
7.8.4.7.27.3 Isolate/repair malfunctions								-	-	-	-
7.9 PECULIAR SUPPORT EQUIPMENT											

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
7.9.1 Theory of operation												
7.9.1.1 Viper MLV TR: TO 31S5-4-6085-11								-	-	-	-	
7.9.1.2 EPROM Programmer Verifier ITA TR: TO 33D7-42-55 series								-	B	-	-	
7.9.1.3 PROM Programmer TR: TO 31S5-4-1000-11								-	-	-	-	
7.9.1.4 LRU Cooler Assembly TR: TO 33DA102-18-1								-	B	-	-	
7.9.2 Use:												
7.9.2.1 Virginia Patch Panel Alignment Kit TR: Applicable test station -2 TOs								-	-	-	-	
7.9.2.2 Pressure Test Set TR: Applicable LRU 8-1 TO								2b	-	-	-	
7.9.2.3 DCS (AN/GYQ-59)/CAPRE TR: (G/D AEI) 16AEI-76-4112												
7.9.2.3.1 EW programming		*						-	-	-	-	
7.9.2.3.2 AIS software updates	*							2b	-	-	-	
7.9.2.4 EPROM Programmer Verifier ITA TR: TO 33D7-42-55 series								-	-	-	-	
7.9.2.5 PROM Programmer TR: TO 31S5-4-1000-11								-	-	-	-	
7.9.2.6 LRU Cooling Assembly TR: TO 33DA102-18-1												
7.9.2.6.1 Operate								-	-	-	-	
7.9.2.6.2 Perform Periodic Inspections												
7.9.2.6.2.1 60 day or 400 hour								-	-	-	-	
7.9.2.6.2.2 365 day or 2400 hour								-	-	-	-	
7.9.2.6.2.3 Calibrate								-	-	-	-	
7.9.2.6.3 Service								-	-	-	-	
7.9.3 Isolate/repair malfunctions												
7.9.3.1 Viper MLV TR: TO31S5-4-6085-11								-	-	-	-	

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
7.9.3.2 EPROM Programmer Verifier ITA TR: TO 33D7-42-39-11								-	-	-	-
7.9.3.3 PROM Programmer TR: TO 31S5-4-1000-11								-	-	-	-
7.9.3.4 Pressure Test Set TR: TO 33D7-8-129-1								-	-	-	-
7.10 F-16 SPECIFIC MANUAL SYSTEMS											
7.10.1 Intercommunications Systems											
7.10.1.1 AUDIO 1 PANEL TR: TO 12R2-4-233-4											
7.10.1.1.1 Theory of Operation								-	-	-	-
7.10.1.1.2 Bench Check								-	-	-	-
7.10.1.1.3 Isolate/repair malfunctions								-	-	-	-
7.10.1.2 AUDIO 2 PANEL TR: TO 12R2-4-240-2											
7.10.1.2.1 Theory of Operation								-	-	-	-
7.10.1.2.2 Bench Check								-	-	-	-
7.10.1.2.3 Isolate/repair malfunctions								-	-	-	-
7.10.1.3 AUX COMM PANEL TR: TO 12R2-4-227-3											
7.10.1.3.1 Bench Check								-	-	-	-
7.10.1.3.2 Alignment								-	-	-	-
7.10.1.3.3 Isolate/repair malfunctions								-	-	-	-
7.10.2 Engine Management Systems											
7.10.2.1 Digital Engine Functional Tester (DEFT)/Engine Analyzer Unit (EAU) TR: TO 33D4-6-684-2											
7.10.2.1.1 Theory of operation								-	-	-	-
7.10.2.1.2 Perform maintenance testing								-	-	-	-
7.10.2.1.3 Isolate/repair Malfunctions								-	-	-	-
7.10.2.2 Digital Electronic Engine Controller (DEEC) TR: TO 6J3-4-117-2											

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
7.10.2.2.1 Theory of operation								-	-	-	-
7.10.2.2.2 Perform maintenance testing								-	-	-	-
7.10.2.2.3 Isolate/repair Malfunctions								-	-	-	-
7.10.2.3 Engine Diagnostic Unit (EDU) TR: TO 5E1-2-15-2											
7.10.2.3.1 Theory of operation								-	-	-	-
7.10.2.3.2 Perform maintenance testing								-	-	-	-
7.10.2.3.3 Isolate/repair Malfunctions								-	-	-	-
7.10.2.4 Engine Control Throttle Quadrant Assembly TR: TOs 2JA8-24-2, 2JA8-24-12											
7.10.2.4.1 Theory of operation								-	-	-	-
7.10.2.4.2 Perform maintenance testing								-	-	-	-
7.10.2.4.3 Isolate/repair Malfunctions								-	-	-	-
7.10.3 Electronic Warfare Systems											
7.10.3.1 Threat Warning Auxiliary Panel TR: TO 12P3-2ALR22											
7.10.3.1.1 Theory of operation								-	-	-	-
7.10.3.1.2 Perform maintenance testing								-	-	-	-
7.10.3.1.3 Isolate/repair Malfunctions								-	-	-	-
7.10.3.2 Threat Warning Prime Panel TR: TO 12P3-2ALR22											
7.10.3.2.1 Theory of operation								-	-	-	-
7.10.3.2.2 Perform maintenance testing								-	-	-	-
7.10.3.2.3 Isolate/repair Malfunctions								-	-	-	-
7.10.4 Misc. Systems											

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
7.10.4.1 Integrated Control Panel (ICP) TR: TOs 5N29-14-2, 5N29-20-2												
7.10.4.1.1 Theory of operation								-	-	-	-	
7.10.4.1.2 Perform maintenance testing								-	-	-	-	
7.10.4.1.3 Isolate/repair Malfunctions								-	-	-	-	
7.10.4.2 Aft Station Control Panel (IKP) TR: TO 11F32-2-40-2												
7.10.4.2.1 Theory of operation								-	-	-	-	
7.10.4.2.2 Perform maintenance testing								-	-	-	-	
7.10.4.2.3 Isolate/repair Malfunctions								-	-	-	-	
7.10.4.3 Communications Control Panel TR: TO 12R-4-179-2												
7.10.4.3.1 Theory of operation								-	-	-	-	
7.10.4.3.2 Perform maintenance testing								-	-	-	-	
7.10.4.3.3 Isolate/repair Malfunctions								-	-	-	-	
7.10.4.4 Pilot's Control Grip Assembly TR: TOs 16C1-27-20-2, 16C1-27-30-2												
7.10.4.4.1 Theory of operation								-	-	-	-	
7.10.4.4.2 Perform maintenance testing								-	-	-	-	
7.10.4.4.3 Isolate/repair Malfunctions								-	-	-	-	
7.10.4.5 Throttle Grip Assembly TR: TOs 2JA8-24-2, 2JA8-24-12												
7.10.4.5.1 Theory of operation								-	-	-	-	
7.10.4.5.2 Perform maintenance testing								-	-	-	-	
7.10.4.5.3 Isolate/repair Malfunctions								-	-	-	-	
7.10.4.6 Avionics Power Panel TR: TO 8C21-30-2												

F-16 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
7.10.4.6.1 Perform maintenance testing								-	-	-	-
7.10.4.6.2 Isolate/Repair Malfunctions								-	-	-	-

F-117 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
ATTACHMENT 8											
NOTE 1: All course requirements are trained in the 3-level resident wartime course. The 7-level in -residence course is not taught in wartime.											
NOTE 2: Users are responsible for annotating training references to identify current references pending STS revision											
NOTE 3: Items marked in columns 2a or 2b with a “*R” are optional core tasks for ANG and AFRC.											
NOTE 4: Address comments and recommended changes through the MAJCOM Functional Managers to the AETC Training Manager, DSN 736-7899.											
8 ATTACHMENT 8, F-117 TRAINING REQUIREMENTS											
8.1 F-117 CONSOLIDATED AUTOMATIC TEST EQUIPMENT (CATE)											
8.1.1 CATE peculiar software system TR: TOs 20G5000 and applicable software system manuals											
8.1.1.1 Software theory											
8.1.1.1.1 Configuration software								-	-	-	-
8.1.1.1.2 Advanced Interactive Executive (AIX) Operating System								-	-	-	-
8.1.1.1.3 Licensed program products								-	-	-	-
8.1.1.1.4 Software drivers								-	-	-	-
8.1.1.1.5 MATE ATLAS Compiler (MAC)								-	-	-	-
8.1.1.1.6 MATE On-Line Editor (MOLE)								-	A	-	-
8.1.1.1.7 MATE Test Executive (MTE)								-	A	-	-
8.1.1.1.8 Application software											
8.1.1.1.8.1 Computer diagnostics								-	-	-	-
8.1.1.1.8.2 Confidence self test								-	-	-	-
8.1.1.1.8.3 Self test wraparound								-	-	-	-
8.1.1.1.8.4 Calibration								-	A	-	-
8.1.1.1.8.5 LRU programs								-	-	-	-
8.1.1.2 Software procedures											
8.1.1.2.1 AIX operating system											
8.1.1.2.1.1 Interpret existing files								-	-	-	-
8.1.1.2.1.2 Manipulate existing files								-	-	-	-
8.1.1.2.1.3 Perform files maintenance								-	-	-	-
8.1.1.2.1.4 Interpret ATLAS program								-	-	-	-
8.1.1.2.2 MOLE								-	-	-	-
8.1.1.2.3 MAC								-	-	-	-
8.1.1.2.4 MTE								-	-	-	-

F-117 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
8.1.1.3 Isolate malfunctions using:												
8.1.1.3.1 MTE												
8.1.1.3.1.1 Display Values (DV)								-	-	-	-	
8.1.1.3.1.2 Monitor (MON)								-	-	-	-	
8.1.1.3.1.3 Trace (TR)								-	-	-	-	
8.1.1.3.1.4 Debug function (DB)								-	-	-	-	
8.1.1.3.1.5 Confidence self test								-	-	-	-	
8.1.1.3.2 MOLE								-	-	-	-	
8.1.1.3.3 ATLAS program listings								-	-	-	-	
8.1.1.3.4 Self test wraparound								-	-	-	-	
8.1.1.3.5 Computer diagnostics		*						-	-	-	-	
8.1.1.3.6 Peripheral tests								-	-	-	-	
8.1.2 CATE theory of operation												-
8.1.2.1 AC Power Supplies TR: TO 51-1503L-1								-	A	-	-	
8.1.2.2 DC Power Supplies TR: TO 51-AT8000-1								-	A	-	-	
8.1.2.3 Digital Word Generator (DWG) TR: TO 51-TS4024-1								-	A	-	-	
8.1.2.4 Interface Connector Assembly (ICA) TR: TO 51-1272-S-1025-1								-	A	-	-	
8.1.2.5 ICA Controller TR: TO 51-1275-1								-	A	-	-	
8.1.2.6 Logic Level Converter TR: TO 31S5-43206-8-1								-	A	-	-	
8.1.2.7 Power Control Panel TR: TO 20G5000-1								-	A	-	-	
8.1.2.8 Printer TR: TO 51T14-497682-1								-	A	-	-	
8.1.2.9 Programmable Load TR: TOs 51-L4000M-1 and 51-L4009M-05-01								-	A	-	-	
8.1.2.10 PS/2 (R) Computers TR: TOs 51-PS2 series								-	A	-	-	
8.1.2.11 Waveform Analyzer TR: TOs 51-6100-1 series								-	A	-	-	
8.1.2.12 Waveform Synthesizers TR: TOs 51-2020-1 series								-	A	-	-	

F-117 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
8.1.2.13 Versa Modulo Europa Extension for Instrumentation (VXI) Instrument Chassis No. 2 (A8A1)												
8.1.2.13.1 VXI-Multisystem Extension Interface (MXI) Interface Module (A8A1A0) TR: TO 51-VXI-MXI-1								-	A	-	-	
8.1.2.13.2 Synchro/Resolver Converter (A8A1A8) TR:TO 51-5410C-42-1-1								-	-	-	-	
8.1.2.13.3 VXI No. 2 Computer (A8A1A5/A8) TR: TO 51-VXIpc-486-1								-	-	-	-	
8.1.2.13.4 IEEE -488 Card (A8A1A5A1) TR: TO 51-AT-GPIB/TNT-1-1								-	-	-	-	
8.1.2.13.5 Arbitrary Waveform Synthesizer (A8A1A7) TR: TO 51-1396-1-1								-	-	-	-	
8.1.2.13.6 Frequency/Time Interval Meter (A8A1A8) TR: TO 51-73A-541								-	-	-	-	
8.1.2.14 VXI Switching Chassis (A8A2)												
8.1.2.14.1 VXI-MXI Interface Module (A8A2A0) TR: TO 51-VXI-MXI-1								-	-	-	-	
8.1.2.14.2 2 Channel 1x48 Mux (A8A2A1,A2,A8,A4) TR: TO 51-1260-35-1								-	-	-	-	
8.1.2.14.3 16 Channel 1x6 Mux (A8A2A5,A8) TR: TO 51-1260-35-1								-	-	-	-	
8.1.2.14.4 80 Channel SPDT Switch Module (A8A2A7,A8,A9) TR: TO 51-1260-17-1								-	-	-	-	

F-117 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
8.1.2.14.5 6 Channel SPDT 1x4 Mux Module (A8A2A10) TR: TO 51-1260-17-1								-	-	-	-
8.1.2.14.6 32 Channel SPDT Power Relay Module (A8A2A12) TR: TO 51-VX4357-2								-	-	-	-
8.1.2.15 VXI Instrument Chassis No. 1 (A8A8)											
8.1.2.15.1 VXI No.1 Computer (A8A8A0/A1) TR: TO 51-VXIpc-486-1								-	-	-	-
8.1.2.15.2 16 Channel DAC Modules No.1 thru No.4 (A8A8A2,A8,A4,A5) TR: TO 51-TVXI/DAC16-1								-	-	-	-
8.1.2.15.3 DMM (A8A8A8) TR: TO 51-HP E1410A-1								-	-	-	-
8.1.2.15.4 Dual 1553 A/B Bus Simulator (A8A8A7) TR: TO 51-73A-455								-	-	-	-
8.1.2.15.5 Digitizing Oscilloscope TR: TO 51-HP E1428A-1								-	-	-	-
8.1.2.15.6 32 Channel Analog Input Module (A8A8A9) TR: TO 51-VX4286-1								-	-	-	-
8.1.2.15.7 DWG Timing Control Card (A8A8A10) TR: TO 51-SR5000								-	-	-	-
8.1.2.15.8 DWG 32 Channel I/O (A8A8A11) TR: TO 51-SR5000								-	-	-	-
8.1.2.15.9 VXI-MXI Interface Module (A8A8A12) TR: TO 51-VXI-MXI-1								-	-	-	-
8.1.3 Perform required inspections TR: TO 20G5000											
8.1.3.1 Daily	*							-	-	-	-
8.1.3.2 30 day	*							-	-	-	-
8.1.3.3 60 day	*							-	-	-	-

F-117 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
8.1.3.4 180 day	*							-	-	-	-
8.1.3.5 360 day		*						-	-	-	-
8.1.4 CATE functional tests TR: TOs 20CP5152, 20CP5162											
8.1.4.1 Perform on line analysis											
8.1.4.1.1 Confidence Self Test (CST)	*							-	-	-	-
8.1.4.1.2 Wraparound Self Test	*							-	-	-	-
8.1.4.1.3 Calibration using PATEC		*						-	-	-	-
8.1.4.1.4 Computer diagnostics	*							-	-	-	-
8.1.4.2 Perform off line analysis											
8.1.4.2.1 Power Control Panel								-	-	-	-
8.1.4.2.2 AC Distribution System								-	-	-	-
8.1.4.2.3 Over temperature warning circuits								-	-	-	-
8.1.4.2.4 Blower failure warning circuits								-	-	-	-
8.1.4.2.5 Emergency shutdown								-	-	-	-
8.1.4.2.6 Printer								-	-	-	-
8.1.5 CATE Isolate/repair Malfunctions											
8.1.5.1 Self test ITA TR: TO 20G5153											
8.1.5.1.1 Analog								-	-	-	-
8.1.5.1.2 Digital								-	-	-	-
8.1.5.2 Calibration ITA TR: TO 20G5163								-	-	-	-
8.1.5.3 VXI self test ITA TR: TO 20G5156								-	-	-	-
8.1.5.4 VXI calibration ITA TR: TO 20G5165								-	-	-	-
8.1.5.5 LRU ITAs TR: Applicable maintenance manuals								-	-	-	-
8.1.5.6 Test replaceable units											
8.1.5.6.1 AC Power Supplies TR: TO 51-1503L-1								-	-	-	-
8.1.5.6.2 DC Power Supplies TR: TO 51-AT8000-1								-	-	-	-
8.1.5.6.3 Digital Word Generator TR: TO 51-TS4024-1								-	-	-	-

F-117 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
8.1.5.6.4 Interface Connector Assembly (ICA) TR: TO 51-1272-S-1025-1								-	-	-	-
8.1.5.6.5 ICA Controller TR: TO 51-1275-1								-	-	-	-
8.1.5.6.6 Logic Level Converter TR: TO 31S5-43206-8-1								-	-	-	-
8.1.5.6.7 Power Control Panel TR: TO 20G5000-1								-	-	-	-
8.1.5.6.8 Printer TR: TO 51T14-497682-1								-	-	-	-
8.1.5.6.9 Programmable Load TR: TOs 51-L4000M-1 and 51-L4009M-05-01								-	-	-	-
8.1.5.6.10 PS/2 (R) Computers TR: TOs 51-PS2 series								-	-	-	-
8.1.5.6.11 Unit Under Test Cooling Drawer TR: TO 20G5000-1								-	-	-	-
8.1.5.6.12 Waveform Analyzer TR: TOs 51-6100-1 series								-	-	-	-
8.1.5.6.13 Waveform Synthesizers TR: TOs 51-2020-1 series								-	-	-	-
8.1.5.6.14 VXI Instrument Chassis (A8A1) TR: TOs 51-VXI-MXI-1, 51-5410C-42-1-1, 51-VXIpc-486-1, 51-AT-GPIB/TNT-1-1, 51-1396-1-1, and 51-73A-541								-	-	-	-
8.1.5.6.15 VXI Switching Chassis (A8A2) TR: TOs 51-VXI-MXI-1, 51-1260-1, 51-1260-35-1, 51-1260-17-1, and 51-VX4357-2								-	-	-	-

F-117 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
8.1.5.6.16 VXI Instrument Chassis (A8A8) TR: TOs 51-VXI-MXI-1, 51-VXIpc-486, 51-TVXI/DAC16-1, 51-HP E1410A series, 51-73A-455, 51-HP E1428A series, 51-VX4286-1, and 51-SR5000								-	-	-	-
8.1.6 LRU Maintenance											
8.1.6.1 Color Multipurpose Display Indicator (CMDI) TR: TOs 20CP5302, 20G5303, and 31-11-4-1											
8.1.6.1.1 Theory of operation								-	-	-	-
8.1.6.1.2 Operational check	*							-	-	-	-
8.1.6.1.3 Isolate/repair Malfunctions								-	-	-	-
8.1.6.2 Data Entry Panel (DEP) TR: TOs 20CP5322 and 20G5323											
8.1.6.2.1 Theory of operation								-	-	-	-
8.1.6.2.2 Operational check								-	-	-	-
8.1.6.2.3 Isolate/repair Malfunctions								-	-	-	-
8.1.6.3 Display Processor (DP) TR: TOs 20CP5312, 20G5313, and 31-11-4-2											
8.1.6.3.1 Theory of operation								-	-	-	-
8.1.6.3.2 Operational check	*							-	-	-	-
8.1.6.3.3 Isolate/repair Malfunctions								-	-	-	-
8.1.6.4 Expanded Data Transfer Module (EDTM) TR: TOs 31-20R2140, 20CP5482, and 20G5483											
8.1.6.4.1 Theory of operation								-	-	-	-
8.1.6.4.2 Operational check								-	-	-	-
8.1.6.4.3 Isolate/repair Malfunctions								-	-	-	-
8.1.6.5 Expanded Data Transfer Module Interface Unit (EDTMIU) TR: TOs 31-20R2139, 20CP5492, and 20G5493											
8.1.6.5.1 Theory of operation								-	-	-	-
8.1.6.5.2 Operational check								-	-	-	-
8.1.6.5.3 Isolate/repair Malfunctions								-	-	-	-

F-117 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
8.1.6.6 Flight Control System Panel (FCSP) TR: TOs 27-3-1, 20CP5362, and 20G5363												
8.1.6.6.1 Theory of operation								-	-	-	-	
8.1.6.6.2 Operational check								-	-	-	-	
8.1.6.6.3 Isolate/repair Malfunctions								-	-	-	-	
8.1.6.7 Flight Control Computer (FLCC) TR: TOs 27-1-2, 20CP5352, and 20G5353												
8.1.6.7.1 Theory of operation								-	-	-	-	
8.1.6.7.2 Operational check								-	-	-	-	
8.1.6.7.3 Isolate/repair Malfunctions								-	-	-	-	
8.1.6.8 Map Digital Processor (MDP) TR: TOs 20CP5342, 20G5343, and 31-11-3-1												
8.1.6.8.1 Theory of operation								-	-	-	-	
8.1.6.8.2 Operational check								-	-	-	-	
8.1.6.8.3 Isolate/repair Malfunctions								-	-	-	-	
8.1.6.9 Mass Storage Device Electronics Unit (MSDEU) TR: TOs 20CP5332, 20G533, 31-11-3-3												
8.1.6.9.1 Theory of operation								-	-	-	-	
8.1.6.9.2 Operational check								-	-	-	-	
8.1.6.9.3 Isolate/repair Malfunctions								-	-	-	-	
8.1.6.10 Navigation Interface / Autopilot Computer (NIAC) TR: TOs 27-2-4, 20CP5372, and 20G5373												
8.1.6.10.1 Theory of operation								-	-	-	-	
8.1.6.10.2 Operational check								-	-	-	-	
8.1.6.10.3 Isolate/repair Malfunctions								-	-	-	-	
8.1.6.11 Projection Display Unit (PDU) TR: TOs 31-11-2-1, 20CP5462, and 20G5463												
8.1.6.11.1 Theory of operation								-	-	-	-	
8.1.6.11.2 Operational check								-	-	-	-	

F-117 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
8.1.6.11.3 Isolate/repair Malfunctions								-	-	-	-
8.1.6.12 Weapons System Computer (WSC) TR: TOs 12-20R1124, 20CP5472, and 20G5473											
8.1.6.12.1 Theory of operation								-	-	-	-
8.1.6.12.2 Operational check								-	-	-	-
8.1.6.12.3 Isolate/repair Malfunctions								-	-	-	-
8.1.6.13 Weapons System Computer AP102A (WSC AP102A) TR: TOs 12-20R1124-1, 20CP5382, and 20G5383											
8.1.6.13.1 Operational check								-	-	-	-
8.1.6.13.2 Isolate/repair Malfunctions								-	-	-	-
8.2 F-117 MANUAL SUPPORT EQUIPMENT/LRU MAINTENANCE											
8.2.1 Air Transportable Mobile Subsystem Van #1 (Hot Mock-Up) TR: TOs 20G145, 20G336, 20G1001, 31-11-2-1, 31-22-1-2, 12S6-2AXQ-12, 5N16-3-112, and NAVAIR 19-25-172											
8.2.1.1 Test equipment theory of operation								-	-	-	-
8.2.1.2 Perform:											
8.2.1.2.1 Power application								-	-	-	-
8.2.1.2.2 Weapons System Computer (WSC) computer initialization								-	-	-	-
8.2.1.2.3 WSC Memory zero reset procedures								-	-	-	-

F-117 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
8.2.1.2.4 Inertial Navigation System (INS) Built-In-Test (BIT) and Interface Electronics Unit (IEU) Rotor Support Power Adapter (RSPA) test (Vans not modified by SB 3350)								-	-	-	-
8.2.1.2.5 INS System Readiness Test (SRT) (Vans modified by SB 3350)								-	-	-	-
8.2.1.2.6 Control Display Navigation Unit (CDNU) SRT (Vans modified by SB 3350)								-	-	-	-
8.2.1.2.7 NAV Simulator Panel checkout (Vans not modified by SB 3350)								-	-	-	-
8.2.1.2.8 NAV Simulator Panel checkout (Vans modified by SB 3350)								-	-	-	-
8.2.1.2.9 Navigation Interface Autopilot Computer (NIAC) SRT								-	-	-	-
8.2.1.2.10 Air Data Computer BIT								-	-	-	-
8.2.1.2.11 Stores Management System (SMS) video checkout								-	-	-	-
8.2.1.2.12 Avionics subsystem SRT test displays											
8.2.1.2.12.1 WSC Initiated Built In Test (IBIT), Discrete Interface Test (DIT), and AW mode								-	-	-	-
8.2.1.2.12.2 Display SRT								-	-	-	-
8.2.1.2.12.3 Digital Tactical Situation Display (DTSD) SRT								-	-	-	-
8.2.1.2.13 Map/Video interface verification								-	-	-	-
8.2.1.2.14 Paper Map (PMAP) verification								-	-	-	-
8.2.1.2.15 Data Frame (DFRM)verification								-	-	-	-

F-117 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
8.2.1.2.16	Data Entry Panel (DEP) checkout								-	-	-	-
8.2.1.2.17	Map video verification								-	-	-	-
8.2.1.2.18	Display Processor Template EEPROM load procedure (Vans not modified by SB 3350)								-	-	-	-
8.2.1.2.19	Display Processor Template EEPROM load procedure (Vans modified by SB 3350)								-	-	-	-
8.2.1.2.20	INS procedures (Vans not modified by SB 3350)											
8.2.1.2.20.1	Alignment								-	-	-	-
8.2.1.2.20.2	Drift run								-	-	-	-
8.2.1.2.20.3	AUX 2 bite history								-	-	-	-
8.2.1.2.20.4	Despin procedures								-	-	-	-
8.2.1.2.20.5	INS auxiliary battery test								-	-	-	-
8.2.1.2.20.6	Dead Reckoning mode test								-	-	-	-
8.2.1.2.21	INS procedures (Vans modified by SB 3350)											
8.2.1.2.21.1	Gyro Compass (GC) alignment								-	-	-	-
8.2.1.2.21.2	Enhanced Interrupt Alignment (EIA)								-	-	-	-
8.2.1.2.21.3	Drift run								-	-	-	-
8.2.1.2.21.4	INU DC back up power test								-	-	-	-
8.2.1.2.21.5	Dead Reckoning mode test								-	-	-	-
8.2.1.2.22	SMS initiated bit using WSC								-	-	-	-
8.2.1.2.23	Weapons Loading Panel (WLP) switch test								-	-	-	-
8.2.1.2.24	Nuclear weapons test								-	-	-	-
8.2.1.2.25	SMS tests using the Stores Management Processor (SMP) test set								-	-	-	-
8.2.1.2.26	Subsystems Van (SSV) shutdown								-	-	-	-
8.2.1.2.27	Periodic inspections											

F-117 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
8.2.1.2.27.1 7 day								-	-	-	-
8.2.1.2.27.2 30 day								-	-	-	-
8.2.1.2.27.3 90 day								-	-	-	-
8.2.1.2.27.4 180 day								-	-	-	-
8.2.1.3 Complex / Decomplex								-	-	-	-
8.2.1.4 Pack / Palletize								-	-	-	-
8.2.2 Double Wide Avionics Van(DWAV)											
8.2.2.1 Perform											
8.2.2.1.1 Side wall panel removal / installation								-	-	-	-
8.2.2.1.2 Power application								-	-	-	-
8.2.2.1.3 Periodic inspections											
8.2.2.1.3.1 7 day								-	-	-	-
8.2.2.1.3.2 30 day								-	-	-	-
8.2.2.1.3.3 60 day								-	-	-	-
8.2.2.1.3.4 180 day								-	-	-	-
8.2.2.1.4 Shutdown (power removal)								-	-	-	-
8.2.2.2 Complex / Decomplex								-	-	-	-
8.2.2.3 Pack / Palletize								-	-	-	-
8.2.3 SMP test set TR: TOs XX-11, XX-11-20G145, and applicable system manuals											
8.2.3.1 Theory of operation								-	-	-	-
8.2.3.2 Perform required 180 day inspection								-	-	-	-
8.2.3.3 Perform minimum performance test								-	-	-	-
8.2.3.4 Isolate/repair Malfunctions								-	-	-	-
8.2.3.5 SMP											
8.2.3.5.1 Theory of operation								-	-	-	-
8.2.3.5.2 Perform maintenance test								-	-	-	-
8.2.3.5.3 Isolate/repair Malfunctions								-	-	-	-
8.2.4 SMS test set (WIT C, D, and V) TR: TO XX-11-20G132											
8.2.4.1 Theory of operation								-	-	-	-
8.2.4.2 Perform verification test								-	-	-	-
8.2.4.3 Isolate/repair Malfunctions								-	-	-	-

F-117 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
8.2.5 INS test set TR: TO 34-UG8784D-1, 33DA8-84-1, and LJJ 49FW-047												
8.2.5.1 Theory of operation												
8.2.5.1.1 TRUs								-	-	-	-	
8.2.5.1.2 CDU Test Station								-	-	-	-	
8.2.5.2 Perform operational checkout								-	-	-	-	
8.2.5.3 Perform periodic inspections												
8.2.5.3.1 Daily								-	-	-	-	
8.2.5.3.2 7 day								-	-	-	-	
8.2.5.3.3 30 day								-	-	-	-	
8.2.5.3.4 90 day								-	-	-	-	
8.2.5.3.5 180 day								-	-	-	-	
8.2.5.3.6 Master Reference Cube (MRC) azimuth determination								-	-	-	-	
8.2.5.3.7 Azimuth transfer and attitude calibration								-	-	-	-	
8.2.5.4 Perform alignments								-	-	-	-	
8.2.5.5 Perform calibration								-	-	-	-	
8.2.5.6 Isolate/repair Malfunctions								-	-	-	-	
8.2.5.7 LRUs												
8.2.5.7.1 Inertial Measurement Unit (IMU) TR: TO 34-40-1												
8.2.5.7.1.1 Theory of operation								-	-	-	-	
8.2.5.7.1.2 Perform maintenance test and calibration								-	-	-	-	
8.2.5.7.1.3 Isolate/repair Malfunctions								-	-	-	-	
8.2.5.7.2 IEU TR: TO 34-40-2												
8.2.5.7.2.1 Theory of operation								-	-	-	-	
8.2.5.7.2.2 Perform maintenance test								-	-	-	-	
8.2.5.7.2.3 Isolate/repair Malfunctions								-	-	-	-	

F-117 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
8.2.5.7.3 Control Display Unit (CDU) TR: TO 34-40-3											
8.2.5.7.3.1 Theory of operation								-	-	-	-
8.2.5.7.3.2 Perform maintenance test								-	-	-	-
8.2.5.7.3.3 Isolate/repair Malfunctions								-	-	-	-

E3 & E8 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
ATTACHMENT 9											
NOTE 1: All course requirements are trained in the 3-level resident wartime course. The 7-level in-residence course is not taught in wartime.											
NOTE 2: Users are responsible for annotating training references to identify current references pending STS revision											
NOTE 3: Items marked in columns 2a or 2b with a “*R” are optional core tasks for ANG and AFRC.											
NOTE 4: Address comments and recommended changes through the MAJCOM Functional Managers to the AETC Training Manager, DSN 736-7899.											
9 ATTACHMENT 9, E-3 & E-8 TRAINING REQUIREMENTS											
9.1 AUDIO DISTRIBUTION SYSTEM											
9.1.1 C-9656/A Mission Audio Panel (MAP) TR: TOs 12R2-2A-342, 12R2-2A-347-1											
9.1.1.1 Theory of operation								-	-	-	-
9.1.1.2 Perform Operational Checks								-	-	-	-
9.1.1.3 Isolate/Repair malfunction								-	-	-	-
9.1.2 C-9657/A Special Audio Panel (SAP) TR: TOs 12R2-2A-342, 12R2-2A-347-1											
9.1.2.1 Theory of operation								-	-	-	-
9.1.2.2 Perform Operational Checks								-	-	-	-
9.1.2.3 Isolate/Repair malfunction								-	-	-	-
9.1.3 C-9658/A Flight Deck Audio Panel (FDAP) TR: TOs 12R2-2A-342, 12R2-2A-347-1											
9.1.3.1 Theory of operation								-	-	-	-
9.1.3.2 Perform Operational Checks								-	-	-	-
9.1.3.3 Isolate/Repair malfunctions								-	-	-	-
9.1.4 C-9659/A Mission Maintenance Audio Panel (MMAP) TR: TOs 12R2-2A-342, 12R2-2A-347-1											
9.1.4.1 Theory of operation								-	-	-	-
9.1.4.2 Perform Operational Checks								-	-	-	-
9.1.4.3 Isolate/Repair malfunctions								-	-	-	-
9.1.5 C-9660/A Air Vehicle Maintenance Audio Panel (AVMAP) TR: TOs 12R2-2A-342, 12R2-2A-347-1											
9.1.5.1 Theory of operation								-	-	-	-
9.1.5.2 Perform Operational Checks								-	-	-	-

E3 & E8 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
9.1.5.3 Isolate/Repair malfunctions								-	-	-	-
9.1.6 OB-76B/A Central Switching Unit (CSU) TR: TOs 12R2-2A-1602, 12R2-2A-1608-1											
9.1.6.1 Theory of operation								-	-	-	-
9.1.6.2 Perform Operational Checks								-	-	-	-
9.1.6.3 Isolate/Repair malfunctions								-	-	-	-
9.1.7 C-9655B Program Display and Test Panel (PD&TP) TR: TOs 12R2-2A-1612, 12R2-2A-1618-1, 12R2-2A-312											
9.1.7.1 Theory of operation								-	-	-	-
9.1.7.2 Perform Operational Checks								-	-	-	-
9.1.7.3 Isolate/Repair malfunctions								-	-	-	-
9.1.8 SB-4082A/A UHF Baseband Distribution Panel (BDP) TR: TO 12R2-2A-1532											
9.1.8.1 Theory of operation								-	-	-	-
9.1.8.2 Perform Operational Checks								-	-	-	-
9.1.8.3 Isolate/Repair malfunctions								-	-	-	-
9.1.9 SB-4083A/A HF/VHF Baseband Distribution Panel (BDP) TR: TOs 12R2-2A-1532											
9.1.9.1 Theory of operation								-	-	-	-
9.1.9.2 Perform Operational Checks								-	-	-	-
9.1.9.3 Isolate/Repair malfunctions								-	-	-	-
9.1.10 TA-934A Keyer TR: TO 12R2-2A-132											
9.1.10.1 Theory of operation								-	-	-	-
9.1.10.2 Perform Operational Checks								-	-	-	-
9.1.10.3 Isolate/Repair malfunctions								-	-	-	-
9.1.11 C-11098/A Audio Switch TR: TO 12R2-2A-132											
9.1.11.1 Theory of operation								-	-	-	-
9.1.11.2 Perform Operational Checks								-	-	-	-
9.1.11.3 Isolate/Repair malfunctions								-	-	-	-

E3 & E8 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
9.1.12 C-12548/A Flight Deck Interface Unit (FDIU) TR: Applicable System TOs											
9.1.12.1 Theory of operation								-	-	-	-
9.1.12.2 Perform Operational Checks								-	-	-	-
9.1.12.3 Isolate/Repair malfunctions								-	-	-	-
9.1.13 C-10896/A Flight Deck System Control (FDSC) TR: TO 12R2-2A-132											
9.1.13.1 Theory of operation								-	-	-	-
9.1.13.2 Perform Operational Checks								-	-	-	-
9.1.13.3 Isolate/Repair malfunctions								-	-	-	-
9.2 UHF											
9.2.1 UHF High Power Amplifier (HPA) TR: Applicable System TOs											
9.2.1.1 Theory of operation								-	-	-	-
9.2.1.2 Perform Operational Checks								-	-	-	-
9.2.1.3 Isolate/Repair malfunctions								-	-	-	-
9.2.2 MX-9622/A UHF Low Power Filter (LPF) TR: 12R2-2A-182, 12R2-2A-183											
9.2.2.1 Theory of operation								-	-	-	-
9.2.2.2 Perform Operational Checks								-	-	-	-
9.2.2.3 Isolate/Repair malfunctions								-	-	-	-
9.2.3 UHF High Power Amplifier/Power Supply (HPA/PS) TR: Applicable System TOs											
9.2.3.1 Theory of operation								-	-	-	-
9.2.3.2 Perform Operational Checks								-	-	-	-
9.2.3.3 Isolate/Repair malfunctions								-	-	-	-
9.2.4 UHF HPA & HPA/PS Mount TR: Applicable System TOs											
9.2.4.1 Theory of operation								-	-	-	-
9.2.4.2 Perform Operational Checks								-	-	-	-
9.2.4.3 Isolate/Repair malfunctions								-	-	-	-

E3 & E8 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
9.2.5 RT-1266(V)1 UHF Transceiver TR: TOs 12R2-4-196-2, 12R2-4-196-3											
9.2.5.1 Theory of operation								-	-	-	-
9.2.5.2 Perform Operational Checks								-	-	-	-
9.2.5.3 Isolate/Repair malfunctions								-	-	-	-
9.2.6 RT-1258(V)1 UHF Transceiver TR: TOs 12R2-2A-196-2, 12R2-2A-196-3											
9.2.6.1 Theory of operation								-	-	-	-
9.2.6.2 Perform Operational Checks								-	-	-	-
9.2.6.3 Isolate/Repair malfunctions								-	-	-	-
9.2.7 MT-4658/A UHF Transceiver Mount TR: TO 12R2-2A-472											
9.2.7.1 Theory of operation								-	-	-	-
9.2.7.2 Perform Operational Checks								-	-	-	-
9.2.7.3 Isolate/Repair malfunctions								-	-	-	-
9.2.8 J-3850A Applique TR: TO 12R2-4-221-2											
9.2.8.1 Theory of operation								-	-	-	-
9.2.8.2 Perform Operational Checks								-	-	-	-
9.2.8.3 Isolate/Repair malfunctions								-	-	-	-
9.2.9 C-9639/A Mission Digital Radio Control Panel (MDRCP) TR: TO 12R2-2A-152											
9.2.9.1 Theory of operation								-	-	-	-
9.2.9.2 Perform Operational Checks								-	-	-	-
9.2.9.3 Isolate/Repair malfunctions								-	-	-	-
9.3 VHF											
9.3.1 618M-2B/2D VHF AM Transceiver TR: TO 12R2-2A-352											
9.3.1.1 Theory of operation								-	-	-	-
9.3.1.2 Perform Operational Checks								-	-	-	-
9.3.1.3 Isolate/repair malfunctions								-	-	-	-
9.3.2 C-9620/A VHF Control TR: TO 12R2-2A-352											
9.3.2.1 Theory of operation								-	-	-	-
9.3.2.2 Perform Operational Checks								-	-	-	-

E3 & E8 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
9.3.2.3 Isolate/Repair malfunctions								-	-	-	-
9.3.3 C-9621/A VHF Control TR: TO 12R2-2A-352											
9.3.3.1 Theory of operation								-	-	-	-
9.3.3.2 Perform Operational Checks								-	-	-	-
9.3.3.3 Isolate/Repair malfunctions								-	-	-	-
9.4 SATCOM											
9.4.1 MD-1238 Satellite Interface Module (SIM) TR: TOs 12R2-4-267-2, 12R2-4-267-3											
9.4.1.1 Theory of operation								-	-	-	-
9.4.1.2 Perform Operational Checks								-	-	-	-
9.4.1.3 Isolate/Repair malfunctions								-	-	-	-
9.4.2 C-11892 SIM Control TR: TOs 12R2-4-267-2, 12R2-4-267-3											
9.4.2.1 Theory of operation								-	-	-	-
9.4.2.2 Perform Operational Checks								-	-	-	-
9.4.2.3 Isolate/Repair malfunctions								-	-	-	-
9.5 VOR/ILS											
9.5.1 51RV-2B Receiver TR: TO 12R5-169-3											
9.5.1.1 Theory of operation								-	-	-	-
9.5.1.2 Perform Operational Checks								-	-	-	-
9.5.1.3 Isolate/Repair malfunctions								-	-	-	-
9.5.2 RNA-34A Digital Receiver TR: TO 12R5-4-215-2											
9.5.2.1 Theory of operation								-	-	-	-
9.5.2.2 Perform Operational Checks								-	-	-	-
9.5.2.3 Isolate/Repair malfunctions								-	-	-	-
9.5.3 313N VOR/ILS Control TR: TOs 12R5-4-92-7, 12R5-4-92-12, 12R5-4-92-14											
9.5.3.1 Theory of operation								-	-	-	-
9.5.3.2 Perform Operational Checks								-	-	-	-
9.5.3.3 Isolate/Repair malfunctions								-	-	-	-
9.6 COLOR WEATHER RADAR											
9.6.1 RT-1338 Transceiver TR: TOs 12P6-2APS133-2, 12P6-2APS133-22											
9.6.1.1 Theory of operation								-	-	-	-
9.6.1.2 Perform Operational Checks								-	-	-	-

E3 & E8 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
9.6.1.3 Isolate/Repair malfunctions								-	-	-	-
9.6.2 IP-1374 Indicator TR: TOs 12P6-2APS133-2, 12P6-2APS133-22											
9.6.2.1 Theory of operation								-	-	-	-
9.6.2.2 Perform Operational Checks								-	-	-	-
9.6.2.3 Isolate/Repair malfunctions								-	-	-	-
9.6.3 C-10814A RADAR Control TR: TOs 12P6-2APS133-2, 12P6-2APS133-32											
9.6.3.1 Theory of operation								-	-	-	-
9.6.3.2 Perform Operational Checks								-	-	-	-
9.6.3.3 Isolate/Repair malfunctions								-	-	-	-
9.6.4 AS-3440 Antenna TR: TOs 12P6-2APS133-2, 12P6-2APS133-42											
9.6.4.1 Theory of operation								-	-	-	-
9.6.4.2 Perform Operational Checks								-	-	-	-
9.6.4.3 Isolate/Repair malfunctions								-	-	-	-
9.7 RADIO ALTIMETER											
9.7.1 860F-1 Transceiver TR: TO 12R5-4-75-2, 12R5-4-75-22											
9.7.1.1 Theory of operation								-	-	-	-
9.7.1.2 Perform Operational Checks								-	-	-	-
9.7.1.3 Isolate/Repair malfunctions								-	-	-	-
9.7.2 860F-4 Digital Transceiver TR: TO 12R5-4-75-2, 12R5-4-75-22											
9.7.2.1 Theory of operation								-	-	-	-
9.7.2.2 Perform Operational Checks								-	-	-	-
9.7.2.3 Isolate/Repair malfunctions								-	-	-	-
9.8 DATALINK											
9.8.1 Theory of operation								-	-	-	-
9.8.2 CP-1575A Digital Data Processor (DDP) TR: TOs 1E-3A-2-23-2-1, 1E-3A-2-23-2-2											
9.8.2.1 Theory of operation								-	-	-	-
9.8.2.2 Perform Operational Checks								-	-	-	-
9.8.2.3 Isolate/Repair malfunctions								-	-	-	-

E3 & E8 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
9.8.3 J-4781 Interface Unit (IU) TR: TOs 1E-3A-2-23-2-1, 1E-3A-2-23-2-2											
9.8.3.1 Theory of operation								-	-	-	-
9.8.3.2 Perform Operational Checks								-	-	-	-
9.8.3.3 Isolate/Repair malfunctions								-	-	-	-
9.8.4 RT-1641 Receiver/Transmitter (R/T) TR: TOs 1E-3A-2-23-2-1, 1E-3A-2-23-2-3											
9.8.4.1 Theory of operation								-	-	-	-
9.8.4.2 Perform Operational Checks								-	-	-	-
9.8.4.3 Isolate/Repair malfunctions								-	-	-	-
9.8.5 SB-4322 Power Distribution Unit (PDU) TR: TOs 1E-3A-2-23-2-1, 1E-3A-2-23-2-4											
9.8.5.1 Theory of operation								-	-	-	-
9.8.5.2 Perform Operational Checks								-	-	-	-
9.8.5.3 Isolate/Repair malfunctions								-	-	-	-
9.8.6 AM-7389 High Power Amplifier (HPA) TR: TOs 1E-3A-2-23-2-1, 1E-3A-2-23-2-5											
9.8.6.1 Theory of operation								-	-	-	-
9.8.6.2 Perform Operational Checks								-	-	-	-
9.8.6.3 Isolate/Repair malfunctions								-	-	-	-
9.8.7 J-4782 Antenna Interface Unit (AIU) TR: TOs 1E-3A-2-23-2-1, 1E-3A-2-23-2-5											
9.8.7.1 Theory of operation								-	-	-	-
9.8.7.2 Perform Operational Checks								-	-	-	-
9.8.7.3 Isolate/Repair malfunctions								-	-	-	-
9.8.8 C-11993 Control Display Unit (CDU) TR: TOs 1E-3A-2-23-2-1, 1E-3A-2-23-2-6											
9.8.8.1 Theory of operation								-	-	-	-
9.8.8.2 Perform Operational Checks								-	-	-	-
9.8.8.3 Isolate/Repair malfunctions								-	-	-	-
9.9 TADIL-A											

E3 & E8 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
9.9.1 CV-2830 Digital/Analog Converter TR: TOs 12S2-2AYC-2, 12S2-2AYC-3											
9.9.1.1 Theory of operation								-	-	-	-
9.9.1.2 Perform Operational Checks								-	-	-	-
9.9.1.3 Isolate/Repair malfunctions								-	-	-	-
9.9.2 C-9529/A Control/Indicator TR: TO 12S2-2A-13											
9.9.2.1 Theory of operation								-	-	-	-
9.9.2.2 Perform Operational Checks								-	-	-	-
9.9.2.3 Isolate/Repair malfunctions								-	-	-	-
9.10 HAVE QUICK II											
9.10.1 R-2338A/A Receiver Exciter Module (REM) TR: TO 12R2-2ARC204-12											
9.10.1.1 Theory of operation								-	-	-	-
9.10.1.2 Perform Operational Checks								-	-	-	-
9.10.1.3 Isolate/Repair malfunctions								-	-	-	-
9.10.2 OS-286A/A Radio Frequency Oscillator (RFO) TR: TO 12R2-2ARC204-12											
9.10.2.1 Theory of operation								-	-	-	-
9.10.2.2 Perform Operational Checks								-	-	-	-
9.10.2.3 Isolate/Repair malfunctions								-	-	-	-
9.10.3 CI-11641A/A Control Indicator (CI) TR: TO 12R2-2ARC204-12											
9.10.3.1 Theory of operation								-	-	-	-
9.10.3.2 Perform Operational Checks								-	-	-	-
9.10.3.3 Isolate/Repair malfunctions								-	-	-	-
9.11 BRAT											
9.11.1 Theory of operation								A	B	-	-
9.11.2 Model 105/305 TR: TO 33D7-3-383-1											
9.11.2.1 Familiarization/Operating Procedures								-	-	-	-
9.11.2.2 Self Test								-	-	-	-
9.11.2.3 Troubleshoot								-	-	-	-
9.11.2.4 Preventive Maintenance								-	-	-	-

E3 & E8 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
9.11.3 Model 405 (TBRAT) TR: TO 33D7-429-1												
9.11.3.1 Setup/Operating Procedures								-	-	-	-	
9.11.3.2 Self Test								-	-	-	-	
9.11.3.3 Troubleshoot								-	-	-	-	
9.11.3.4 Preventive Maintenance								-	-	-	-	
9.12 ATTITUDE HEADING REFERENCE SYSTEM TR: Applicable system TOs												
9.12.1 Theory of operation								-	-	-	-	
9.12.2 Compass Adapter Compensator												
9.12.2.1 Theory of operation								-	-	-	-	
9.12.2.2 Perform Operational Checks								-	-	-	-	
9.12.2.3 Isolate/Repair malfunctions								-	-	-	-	
9.12.3 Amplifier Power Supply/ Electronic Control Amplifier												
9.12.3.1 Theory of operation								-	-	-	-	
9.12.3.2 Perform Operational Checks								-	-	-	-	
9.12.3.3 Isolate/Repair malfunctions								-	-	-	-	
9.12.4 Displacement Gyro												
9.12.4.1 Theory of operation								-	-	-	-	
9.12.4.2 Perform Operational Checks								-	-	-	-	
9.12.4.3 Isolate/Repair malfunctions								-	-	-	-	
9.12.5 Rate Gyro												
9.12.5.1 Theory of operation								-	-	-	-	
9.12.5.2 Perform Operational Checks								-	-	-	-	
9.12.5.3 Isolate/Repair malfunctions								-	-	-	-	
9.12.6 Rate Switching Gyro												
9.12.6.1 Theory of operation								-	-	-	-	
9.12.6.2 Perform Operational Checks								-	-	-	-	
9.12.6.3 Isolate/Repair malfunctions								-	-	-	-	
9.12.7 Compass System Controller												
9.12.7.1 Theory of operation								-	-	-	-	
9.12.7.2 Perform Operational Checks								-	-	-	-	

E3 & E8 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
9.12.7.3 Isolate/Repair malfunctions								-	-	-	-
9.13 DIGITAL AUTOPILOT TR: Applicable system TOs											
9.13.1 Amplifier/Computer											
9.13.1.1 Theory of operation								-	-	-	-
9.13.1.2 Perform Operational Checks								-	-	-	-
9.13.1.3 Isolate/Repair malfunctions								-	-	-	-
9.13.2 Autopilot System Control Panel											
9.13.2.1 Theory of operation								-	-	-	-
9.13.2.2 Perform Operational Checks								-	-	-	-
9.13.2.3 Isolate/Repair malfunctions								-	-	-	-
9.13.3 Axis Rate Control											
9.13.3.1 Theory of operation								-	-	-	-
9.13.3.2 Perform Operational Checks								-	-	-	-
9.13.3.3 Isolate/Repair malfunctions								-	-	-	-
9.13.4 Three Axis Trim Indicator											
9.13.4.1 Theory of operation								-	-	-	-
9.13.4.2 Perform Operational Checks								-	-	-	-
9.13.5 Automatic Flight Control Interface Unit											
9.13.5.1 Theory of operation								-	-	-	-
9.13.5.2 Perform Operational Checks								-	-	-	-
9.13.5.3 Isolate/Repair malfunctions								-	-	-	-
9.13.6 Power Junction Box											
9.13.6.1 Theory of operation								-	-	-	-
9.13.6.2 Perform Operational Checks								-	-	-	-
9.13.6.3 Isolate/Repair malfunctions								-	-	-	-
9.13.7 Elevator Surface Servo											
9.13.7.1 Theory of operation								-	-	-	-
9.13.7.2 Perform Operational Checks								-	-	-	-
9.13.7.3 Isolate/Repair malfunctions								-	-	-	-
9.13.8 Aileron Servo											
9.13.8.1 Theory of operation								-	-	-	-
9.13.8.2 Perform Operational Checks								-	-	-	-

E3 & E8 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
9.13.8.3 Isolate/Repair malfunctions								-	-	-	-
9.13.9 Spoiler Position Transmitter											
9.13.9.1 Theory of operation								-	-	-	-
9.13.9.2 Perform Operational Checks								-	-	-	-
9.13.9.3 Isolate/Repair malfunctions								-	-	-	-
9.13.10 Dual Speed Stab Trim Mechanism											
9.13.10.1 Theory of operation								-	-	-	-
9.13.10.2 Perform Operational Checks								-	-	-	-
9.13.10.3 Isolate/Repair malfunctions								-	-	-	-
9.13.11 Flight Mode Annunciator											
9.13.11.1 Theory of operation								-	-	-	-
9.13.11.2 Perform Operational Checks								-	-	-	-
9.13.11.3 Isolate/Repair malfunctions								-	-	-	-
9.13.12 Elevator Torque Adapter											
9.13.12.1 Theory of operation								-	-	-	-
9.13.12.2 Perform Operational Checks								-	-	-	-
9.14 YAW DAMPER SYSTEM TR: Applicable system TOs											
9.14.1 Series Yaw Damper Coupler											
9.14.1.1 Theory of operation								-	-	-	-
9.14.1.2 Perform Operational Checks								-	-	-	-
9.14.1.3 Isolate/Repair malfunctions								-	-	-	-
9.14.2 Parallel Yaw Damper Coupler											
9.14.2.1 Theory of operation								-	-	-	-
9.14.2.2 Perform Operational Checks								-	-	-	-
9.14.2.3 Isolate/Repair malfunctions								-	-	-	-
9.14.3 Yaw Damper Control Panel											
9.14.3.1 Theory of operation								-	-	-	-
9.14.3.2 Perform Operational Checks								-	-	-	-
9.14.3.3 Isolate/Repair malfunctions								-	-	-	-

E3 & E8 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
9.15 CENTRAL AIR DATA SYSTEM TR: Applicable system TOs												
9.15.1 Standard Centralized Air Data Computer												
9.15.1.1 Theory of operation								-	-	-	-	
9.15.1.2 Perform Operational Checks								-	-	-	-	
9.15.1.3 Isolate/Repair malfunctions								-	-	-	-	
9.15.2 Static Air Temperature Indicator												
9.15.2.1 Theory of operation								-	-	-	-	
9.15.2.2 Perform Operational Checks								-	-	-	-	
9.15.3 True Airspeed Indicator												
9.15.3.1 Theory of operation								-	-	-	-	
9.15.3.2 Perform Operational Checks								-	-	-	-	
9.15.4 Transformer Synchro Assembly												
9.15.4.1 Theory of operation								-	-	-	-	
9.15.4.2 Perform Operational Checks								-	-	-	-	
9.15.4.3 Isolate/Repair malfunctions								-	-	-	-	
9.16 FLIGHT DIRECTOR SYSTEM TR: Applicable system TOs												
9.16.1 Flight Director Computer												
9.16.1.1 Theory of operation								-	-	-	-	
9.16.1.2 Perform Operational Checks								-	-	-	-	
9.16.1.3 Isolate/Repair malfunctions								-	-	-	-	
9.16.2 Flight Director Control												
9.16.2.1 Theory of operation								-	-	-	-	
9.16.2.2 Perform Operational Checks								-	-	-	-	
9.16.2.3 Isolate/Repair malfunctions								-	-	-	-	
9.16.3 Flight Instrument Augmentation Unit												
9.16.3.1 Theory of operation								-	-	-	-	
9.16.3.2 Inspect/Operate								-	-	-	-	
9.16.3.3 Isolate/Repair malfunctions								-	-	-	-	
9.16.4 Attitude Director Indicator												

E3 & E8 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
9.16.4.1 Theory of operation								-	-	-	-
9.16.4.2 Perform Operational Checks								-	-	-	-
9.16.4.3 Isolate/Repair malfunctions								-	-	-	-
9.16.5 Horizontal Situation Indicator											
9.16.5.1 Theory of operation								-	-	-	-
9.16.5.2 Perform Operational Checks								-	-	-	-
9.16.5.3 Isolate/Repair malfunctions								-	-	-	-
9.16.6 Rate Gyro											
9.16.6.1 Theory of operation								-	-	-	-
9.16.6.2 Perform Operational Checks								-	-	-	-
9.16.7 Nav Mode Select Panel											
9.16.7.1 Theory of operation								-	-	-	-
9.16.7.2 Perform Operational Checks								-	-	-	-
9.16.7.3 Isolate/Repair malfunctions								-	-	-	-
9.16.8 Switch Light Assembly											
9.16.8.1 Theory of operation								-	-	-	-
9.16.8.2 Inspect/Operate								-	-	-	-
9.16.8.3 Isolate/Repair malfunctions								-	-	-	-
9.17 ENGINE PRESSURE RATION (EPR) SYSTEM TR: Applicable system TOs											
9.17.1 EPR Transducer											
9.17.1.1 Theory of operation								-	-	-	-
9.17.1.2 Perform Operational Checks								-	-	-	-
9.17.1.3 Isolate/Repair malfunctions								-	-	-	-
9.17.2 EPR Indicator											
9.17.2.1 Theory of operation								-	-	-	-
9.17.2.2 Inspect/Operate								-	-	-	-
9.17.2.3 Adjust Indicator								-	-	-	-
9.18 PITOT STATIC SYSTEM TR: Applicable system TOs											
9.18.1 Aims Computer											
9.18.1.1 Theory of operation								-	-	-	-
9.18.1.2 Perform Operational Checks								-	-	-	-
9.18.1.3 Isolate/Repair malfunctions								-	-	-	-
9.18.2 AAU-19/A Altimeter											

E3 & E8 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
9.18.2.1 Theory of operation								-	-	-	-
9.18.2.2 Perform Operational Checks								-	-	-	-
9.18.3 AAU-27 Altimeter											
9.18.3.1 Theory of operation								-	-	-	-
9.18.3.2 Perform Operational Checks								-	-	-	-
9.18.4 Airspeed Indicator											
9.18.4.1 Theory of operation								-	-	-	-
9.18.4.2 Perform Operational Checks								-	-	-	-
9.18.5 Mach-Airspeed Indicator											
9.18.5.1 Theory of operation								-	-	-	-
9.18.5.2 Perform Operational Checks								-	-	-	-
9.18.6 Vertical Velocity Indicator											
9.18.6.1 Theory of operation								-	-	-	-
9.18.6.2 Perform Operational Checks								-	-	-	-
9.19 GLOBAL POSITIONING/ INERTIAL NAVIGATION SYSTEMS (INS) TR: Applicable system TOs											
9.19.1 Embedded Global Positioning INS (EGI)											
9.19.1.1 Theory of operation								-	-	-	-
9.19.1.2 Perform Operational Checks								-	-	-	-
9.19.1.3 Isolate/Repair malfunctions								-	-	-	-
9.19.1.4 Perform Operational Flight Plan Load								-	-	-	-
9.19.2 Integrated Control/Display Unit (ICDU)											
9.19.2.1 Theory of operation								-	-	-	-
9.19.2.2 Perform Operational Checks								-	-	-	-
9.19.2.3 Isolate/Repair malfunctions								-	-	-	-
9.19.2.4 Perform Operational Flight Plan Load								-	-	-	-
9.19.3 Bus Subsystem Interface Unit (BSIU)											
9.19.3.1 Theory of operation								-	-	-	-

E3 & E8 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
9.19.3.2 Perform Operational Checks								-	-	-	-
9.19.3.3 Isolate/Repair malfunctions								-	-	-	-
9.19.4 GINS Control Panel											
9.19.4.1 Theory of operation								-	-	-	-
9.19.4.2 Perform Operational Checks								-	-	-	-
9.19.4.3 Isolate/Repair malfunctions								-	-	-	-
9.19.5 Data Loader											
9.19.5.1 Theory of operation								-	-	-	-
9.19.5.2 Perform Operational Checks								-	-	-	-
9.19.5.3 Isolate/Repair malfunctions								-	-	-	-
9.19.6 Power Supply and Conditioning Unit/AMPS 2000											
9.19.6.1 Perform Voltage/Capacitance Checks								-	-	-	-
9.19.6.2 Charge/Recondition Batteries								-	-	-	-
9.20 TEST EQUIPMENT											
9.20.1 AHRs Test Bench											
9.20.1.1 Operate								-	-	-	-
9.20.1.2 Calibrate								-	-	-	-
9.20.1.3 Inspect/Repair								-	-	-	-
9.20.2 Three Axis Tilt Table											
9.20.2.1 Inspect/Lubricate								-	-	-	-
9.20.3 Scorsby Table											
9.20.3.1 Inspect/Lubricate								-	-	-	-

C-130 and SAM TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
ATTACHMENT 10											
NOTE 1: All course requirements are trained in the 3-level resident wartime course.											
NOTE 2: Core Tasks are identified by an asterisk (*) in the appropriate column. Core tasks identified with an *R are optional for ANG and AFRC.											
NOTE 3: Users are responsible for annotating training references to identify current references pending STS revision.											
NOTE 4: Address comments and recommended changes through the MAJCOM Functional Managers to the AETC Training Manager, DSN 736-7899.											
10 ATTACHMENT 10, C-130 and SAM TRAINING REQUIREMENTS											
10.1 INTERPHONE SYSTEMS											
10.1.1 AIC-18 Interphone System TR: Applicable Technical Data											
10.1.1.1 Theory of operation								-	-	-	-
10.1.1.2 Perform maintenance testing								-	-	-	-
10.1.1.3 Isolate/Repair malfunction								-	-	-	-
10.1.2 AIC-25 Interphone System TR: Applicable Technical Data											
10.1.2.1 Theory of operation								-	-	-	-
10.1.2.2 Perform maintenance testing								-	-	-	-
10.1.2.3 Isolate/Repair malfunctions								-	-	-	-
10.1.3 Interphone Test Set											
10.1.3.1 Theory of operation								-	-	-	-
10.1.3.2 Inspect/Operate								-	-	-	-
10.1.3.3 Isolate/Repair malfunctions								-	-	-	-
10.2 HF COMMUNICATIONS (ARC-190) TR: Applicable Technical Data											
10.2.1 HF Receiver/Transmitter											

C-130 and SAM TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
10.2.1.1 Theory of operation								-	-	-	-
10.2.1.2 Perform maintenance testing								-	-	-	-
10.2.1.3 Isolate/Repair malfunctions								-	-	-	-
10.2.2 HF Coupler											
10.2.2.1 Theory of operation								-	-	-	-
10.2.2.2 Perform maintenance testing								-	-	-	-
10.2.2.3 Isolate/Repair malfunctions								-	-	-	-
10.2.3 HF Control Box											
10.2.3.1 Theory of operation								-	-	-	-
10.2.3.2 Perform maintenance testing								-	-	-	-
10.2.3.3 Isolate/Repair malfunctions								-	-	-	-
10.2.4 HF Mount											
10.2.4.1 Theory of operation								-	-	-	-
10.2.4.2 Perform maintenance testing								-	-	-	-
10.2.4.3 Isolate/Repair malfunctions								-	-	-	-
10.2.5 Test Equipment: HF Test Set											
10.2.5.1 Theory of operation								-	-	-	-
10.2.5.2 Inspect/Operate								-	-	-	-
10.2.5.3 Calibrate								-	-	-	-
10.2.5.4 Isolate/Repair malfunctions								-	-	-	-
10.3 AFSATCOM/SATCOM TR: Applicable Technical Data											

C-130 and SAM TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
10.3.1 Theory of operation								-	-	-	-
10.3.2 Perform maintenance testing								-	-	-	-
10.3.3 Isolate/Repair malfunctions								-	-	-	-
10.3.4 Align/Adjust								-	-	-	-
10.3.5 Applicable SATCOM Test Set											
10.3.5.1 Theory of operation								-	-	-	-
10.3.5.2 Inspect/Operate								-	-	-	-
10.3.5.3 Isolate/Repair malfunctions								-	-	-	-
10.4 IFF TRANSPONDERS TR: Applicable Technical Data											
10.4.1. IFF Receiver/Transmitter											
10.4.1.1 Theory of operation								-	-	-	-
10.4.1.2 Perform maintenance testing								-	-	-	-
10.4.1.3 Isolate/Repair malfunctions								-	-	-	-
10.4.1.4 Align/Adjust								-	-	-	-
10.4.2 IFF Control Box											
10.4.2.1 Theory of operation								-	-	-	-
10.4.2.2 Perform maintenance testing								-	-	-	-
10.4.2.3 Isolate/Repair malfunctions								-	-	-	-
10.4.3 TS-1843/A											
10.4.3.1 Theory of operation								-	-	-	-
10.4.3.2 Perform maintenance testing								-	-	-	-
10.4.3.3 Isolate/Repair malfunctions								-	-	-	-

C-130 and SAM TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
10.4.4 IFF Interface Box (APM-239/A)											
10.4.4.1 Theory of operation								-	-	-	-
10.4.4.2 Inspect/Operate								-	-	-	-
10.5 IFF INTERROGATORS TR: Applicable Technical Data											
10.5.1 Theory of operation								-	-	-	-
10.5.2 Receiver/Transmitter											
10.5.2.1 Theory of operation								-	-	-	-
10.5.2.2 Perform maintenance testing								-	-	-	-
10.5.2.3 Isolate/Repair malfunctions								-	-	-	-
10.5.2.4 Align/Adjust								-	-	-	-
10.5.3 Video Decoder											
10.5.3.1 Theory of operation								-	-	-	-
10.5.3.2 Perform maintenance testing								-	-	-	-
10.5.3.3 Isolate/Repair malfunctions								-	-	-	-
10.5.3.4 Align/Adjust								-	-	-	-
10.5.4 Power Supply											
10.5.4.1 Theory of operation								-	-	-	-
10.5.4.2 Perform maintenance testing								-	-	-	-
10.5.4.3 Isolate/Repair malfunctions								-	-	-	-
10.6 EMERGENCY RADIOS TR: Applicable Technical Data											
10.6.1 Theory of operation								-	-	-	-

C-130 and SAM TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
10.6.2 Perform maintenance testing								-	-	-	-
10.6.3 Isolate/Repair malfunctions								-	-	-	-
10.7 RADAR ALTIMETERS TR: Applicable Technical Data											
10.7.1 Receiver/Transmitter											
10.7.1.1 Theory of operation								-	-	-	-
10.7.1.2 Perform maintenance testing								-	-	-	-
10.7.1.3 Isolate/Repair malfunctions								-	-	-	-
10.7.2 Indicator											
10.7.2.1 Theory of operation								-	-	-	-
10.7.2.2 Perform maintenance testing								-	-	-	-
10.7.2.3 Isolate/Repair malfunctions								-	-	-	-
10.7.3 Radar Altimeter Test Set											
10.7.3.1 Theory of operation								-	-	-	-
10.7.3.2 Inspect/Operate								-	-	-	-
10.8 VHF OMNI RANGE (VOR) and INSTRUMENT LANDING SYSTEM (ILS) TR: Applicable Technical Data											
10.8.1 Theory of operation								-	-	-	-
10.8.2 Receiver											
10.8.2.1 Theory of operation								-	-	-	-
10.8.2.2 Perform maintenance testing								-	-	-	-
10.8.2.3 Isolate/Repair malfunctions								-	-	-	-

C-130 and SAM TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
10.8.2.4 Align/Adjust								-	-	-	-
10.8.3 Control Box											
10.8.3.1 Theory of operation								-	-	-	-
10.8.3.2 Perform maintenance testing								-	-	-	-
10.8.3.3 Isolate/Repair malfunctions								-	-	-	-
10.8.4 VOR/ILS Test Set											
10.8.4.1 Theory of operation								-	-	-	-
10.8.4.2 Inspect/Operate								-	-	-	-
10.9 AUTOMATIC DIRECTION FINDERS (ADF) TR: Applicable Technical Data											
10.9.1 Theory of operation								-	-	-	-
10.9.2 Receiver											
10.9.2.1 Theory of operation								-	-	-	-
10.9.2.2 Perform maintenance testing								-	-	-	-
10.9.2.3 Isolate/Repair malfunctions								-	-	-	-
10.9.2.4 Align/Adjust								-	-	-	-
10.9.3 Loop Assembly											
10.9.3.1 Theory of operation								-	-	-	-
10.9.3.2 Perform maintenance testing								-	-	-	-
10.9.3.3 Align/Adjust								-	-	-	-
10.10 SEARCH and WEATHER RADAR TR: Applicable Technical Data											
10.10.1 Receiver/Transmitter											

C-130 and SAM TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
10.10.1.1 Theory of operation								-	-	-	-
10.10.1.2 Perform maintenance testing								-	-	-	-
10.10.1.3 Isolate/Repair malfunctions								-	-	-	-
10.10.1.4 Align/Adjust								-	-	-	-
10.10.2 Electronic Control Amp (ECA)											
10.10.2.1 Theory of operation								-	-	-	-
10.10.2.2 Perform maintenance testing								-	-	-	-
10.10.2.3 Isolate/Repair malfunctions								-	-	-	-
10.10.2.4 Align/Adjust								-	-	-	-
10.10.3 Synchronizer											
10.10.3.1 Theory of operation								-	-	-	-
10.10.3.2 Perform maintenance testing								-	-	-	-
10.10.3.3 Isolate/Repair malfunctions								-	-	-	-
10.10.3.4 Align/Adjust								-	-	-	-
10.10.4 Power Supply											
10.10.4.1 Theory of operation								-	-	-	-
10.10.4.2 Perform maintenance testing								-	-	-	-
10.10.4.3 Isolate/Repair malfunctions								-	-	-	-
10.10.4.4 Align/Adjust								-	-	-	-
10.10.5 Indicator/Scope											
10.10.5.1 Theory of operation								-	-	-	-
10.10.5.2 Perform maintenance testing								-	-	-	-

C-130 and SAM TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
10.10.5.3 Isolate/Repair malfunctions								-	-	-	-
10.10.5.4 Align/Adjust								-	-	-	-
10.10.6 Antenna											
10.10.6.1 Theory of operation								-	-	-	-
10.10.6.2 Perform maintenance testing								-	-	-	-
10.10.6.3 Isolate/Repair malfunctions								-	-	-	-
10.10.6.4 Align/Adjust								-	-	-	-
10.10.7 Radar Set Control											
10.10.7.1 Theory of operation								-	-	-	-
10.10.7.2 Perform maintenance testing								-	-	-	-
10.10.7.3 Isolate/Repair malfunctions								-	-	-	-
10.10.7.4 Align/Adjust								-	-	-	-
10.10.8 Gyro											
10.10.8.1 Theory of operation								-	-	-	-
10.10.8.2 Perform maintenance testing								-	-	-	-
10.10.9 Synchronizer Control											
10.10.9.1 Theory of operation								-	-	-	-
10.10.9.2 Perform maintenance testing								-	-	-	-
10.10.9.3 Isolate/Repair malfunctions								-	-	-	-
10.10.10 Vanaxial Fan											
10.10.10.1 Theory of operation								-	-	-	-
10.10.10.2 Perform maintenance testing								-	-	-	-
10.10.10.3 Isolate/Repair malfunctions								-	-	-	-

C-130 and SAM TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
10.10.11 Radar Test Set (UPM-145)											
10.10.11.1 Theory of operation								-	-	-	-
10.10.11.2 Inspect/Operate								-	-	-	-
10.11 INERTIAL NAVIGATION SYSTEM (INS) TR: Applicable Technical Data											
10.11.1 Inertial Navigation Unit (INU)											
10.11.1.1 Theory of operation								-	-	-	-
10.11.1.2 Perform maintenance testing								-	-	-	-
10.11.1.3 Software load and verify								-	-	-	-
10.11.2 Control Display Unit (CDU)											
10.11.2.1 Theory of operation								-	-	-	-
10.11.2.2 Perform maintenance testing								-	-	-	-
10.11.2.3 Isolate/Repair malfunctions								-	-	-	-
10.11.3 Mode Select Unit (MSU)											
10.11.3.1 Theory of operation								-	-	-	-
10.11.3.2 Perform maintenance testing								-	-	-	-
10.11.3.3 Isolate/Repair malfunctions								-	-	-	-
10.11.4 Program Load Unit (PLU)											
10.11.4.1 Theory of operation								-	-	-	-
10.11.4.2 Inspect/Operate								-	-	-	-

C-130 and SAM TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
10.12 SELF-CONTAINED NAVIGATION SYS (SCNS) TR: Applicable Technical Data											
10.12.1 Theory of operation								-	-	-	-
10.12.2 Perform maintenance testing								-	-	-	-
10.12.3 Software load and verify								-	-	-	-
10.12.4 SCNS Test Set											
10.12.4.1 Theory of operation								-	-	-	-
10.12.4.2 Inspect/Operate								-	-	-	-
10.13 DOPPLER COMPUTER SYSTEM TR: Applicable Technical Data											
10.13.1 Doppler Computer											
10.13.1.1 Theory of operation								-	-	-	-
10.13.1.2 Perform maintenance testing								-	-	-	-
10.13.1.3 Isolate/Repair malfunctions								-	-	-	-
10.13.1.4 Align/Adjust								-	-	-	-
10.13.2 Main Control Box											
10.13.2.1 Theory of operation								-	-	-	-
10.13.2.2 Perform maintenance testing								-	-	-	-
10.13.2.3 Isolate/Repair malfunctions								-	-	-	-
10.13.2.4 Align/Adjust								-	-	-	-
10.13.3 Auxiliary Control Box											
10.13.3.1 Theory of operation								-	-	-	-
10.13.3.2 Perform maintenance testing								-	-	-	-

C-130 and SAM TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
10.13.3.3 Isolate/Repair malfunctions								-	-	-	-
10.13.3.4 Align/Adjust								-	-	-	-
10.13.4 ASN-35 Test Set											
10.13.4.1 Theory of operation								-	-	-	-
10.13.4.2 Inspect/Operate								-	-	-	-
10.13.4.3 Isolate/Repair malfunctions								-	-	-	-
10.14 DOPPLER RADAR (APN-218) TR: Applicable Technical Data											
10.14.1 Doppler Velocity Sensor											
10.14.1.1 Theory of operation								-	-	-	-
10.14.1.2 Perform maintenance testing								-	-	-	-
10.14.1.3 Isolate/Repair malfunctions								-	-	-	-
10.14.2 Doppler Groundspeed/Drift Indicator											
10.14.2.1 Theory of operation								-	-	-	-
10.14.2.2 Perform maintenance testing								-	-	-	-
10.14.2.3 Isolate/Repair malfunctions								-	-	-	-
10.14.3 APN-218 Doppler Test Set											
10.14.3.1 Theory of operation								-	-	-	-
10.14.3.2 Inspect/Operate								-	-	-	-
10.14.3.3 Isolate/Repair malfunctions								-	-	-	-

C-130 and SAM TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
10.15 DOPPLER RADAR (APN-147) TR: Applicable Technical Data											
10.15.1 Frequency Tracker											
10.15.1.1 Theory of operation								-	-	-	-
10.15.1.2 Perform maintenance testing								-	-	-	-
10.15.1.3 Isolate/Repair malfunctions								-	-	-	-
10.15.1.4 Align/Adjust								-	-	-	-
10.15.2 Receiver/Transmitter											
10.15.2.1 Theory of operation								-	-	-	-
10.15.2.2 Perform maintenance testing								-	-	-	-
10.15.2.3 Isolate/Repair malfunctions								-	-	-	-
10.15.2.4 Align/Adjust								-	-	-	-
10.15.3 Antenna											
10.15.3.1 Theory of operation								-	-	-	-
10.15.3.2 Perform maintenance testing								-	-	-	-
10.15.3.3 Isolate/Repair malfunctions								-	-	-	-
10.15.3.4 Align/Adjust								-	-	-	-
10.15.4 Control Box											
10.15.4.1 Theory of operation								-	-	-	-
10.15.4.2 Perform maintenance testing								-	-	-	-
10.15.4.3 Isolate/Repair malfunctions								-	-	-	-
10.15.5 Indicator											
10.15.5.1 Theory of operation								-	-	-	-

C-130 and SAM TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
10.15.5.2 Perform maintenance testing								-	-	-	-
10.15.6 Doppler Test Set											
10.15.6.1 Theory of operation								-	-	-	-
10.15.6.2 Inspect/Operate								-	-	-	-
10.15.6.3 Isolate/Repair malfunctions								-	-	-	-
10.15.6.4 Calibrate								-	-	-	-
10.16 SINGLE CHANNEL GROUND and AIRBORNE RADIO SYSTEM (SINGARS) (ARC-222) TR: Applicable Technical Data											
10.16.1 Receiver/Transmitter											
10.16.1.1 Theory of operation								-	-	-	-
10.16.1.2 Perform maintenance testing								-	-	-	-
10.16.2 SINGARS Test Set (ARM-204)											
10.16.2.1 Theory of operation								-	-	-	-
10.16.2.2 Inspect/Operate								-	-	-	-
10.17 COMPASS SYSTEM C-12 TR: Applicable Technical Data											
10.17.1 Amplifier											
10.17.1.1 Theory of operation								-	-	-	-
10.17.1.2 Perform maintenance testing								-	-	-	-
10.17.1.3 Isolate/Repair malfunctions								-	-	-	-
10.17.2 Digital Controller											
10.17.2.1 Theory of operation								-	-	-	-

C-130 and SAM TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
10.17.2.2 Perform maintenance testing								-	-	-	-
10.17.2.3 Isolate/Repair malfunctions								-	-	-	-
10.17.3 Directional Gyro											
10.17.3.1 Theory of operation								-	-	-	-
10.17.3.2 Perform maintenance testing								-	-	-	-
10.17.4 C-12 Compass Test Set											
10.17.4.1 Theory of operation								-	-	-	-
10.17.4.2 Inspect/Operate								-	-	-	-
10.17.4.3 Isolate/Repair malfunctions								-	-	-	-
10.18 FLIGHT DIRECTOR SYSTEM TR: Applicable Technical Data											
10.18.1 Attitude Directional Indicator (ADI)											
10.18.1.1 Theory of operation								-	-	-	-
10.18.1.2 Perform maintenance testing								-	-	-	-
10.18.1.3 Align/Adjust								-	-	-	-
10.18.2 ADI Test Set											
10.18.2.1 Theory of operation								-	-	-	-
10.18.2.2 Inspect/Operate								-	-	-	-
10.18.3 Horizontal Situation Indicator (HSI)											
10.18.3.1 Theory of operation								-	-	-	-
10.18.3.2 Perform maintenance testing								-	-	-	-
10.18.3.3 Align/Adjust								-	-	-	-
10.18.4 HSI Test Set											

C-130 and SAM TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
10.18.4.1 Theory of operation								-	-	-	-
10.18.4.2 Inspect/Operate								-	-	-	-
10.18.5 Instrument Switching Unit											
10.18.5.1 Theory of operation								-	-	-	-
10.18.5.2 Perform maintenance testing								-	-	-	-
10.18.5.3 Isolate/Repair malfunctions								-	-	-	-
10.18.6 Instrument Switching Unit Test Set											
10.18.6.1 Theory of operation								-	-	-	-
10.18.6.2 Inspect/Operate								-	-	-	-
10.18.6.3 Isolate/Repair malfunctions								-	-	-	-
10.19 AUTOMATIC FLIGHT CONTROL SYSTEM TR: Applicable Technical Data											
10.19.1 Amplifier											
10.19.1.1 Theory of operation								-	-	-	-
10.19.1.2 Perform maintenance testing								-	-	-	-
10.19.1.3 Isolate/Repair malfunctions								-	-	-	-
10.19.1.4 Align/Adjust								-	-	-	-
10.19.2 Engage Panel											
10.19.2.1 Theory of operation								-	-	-	-
10.19.2.2 Perform maintenance testing								-	-	-	-
10.19.2.3 Isolate/Repair malfunctions								-	-	-	-
10.19.3 Flight Controller											
10.19.3.1 Theory of operation								-	-	-	-

C-130 and SAM TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
10.19.3.2 Perform maintenance testing								-	-	-	-
10.19.3.3 Isolate/Repair malfunctions								-	-	-	-
10.19.4 Servo Control											
10.19.4.1 Theory of operation								-	-	-	-
10.19.4.2 Perform maintenance testing								-	-	-	-
10.19.4.3 Isolate/Repair malfunctions								-	-	-	-
10.19.5 Servo Motor											
10.19.5.1 Theory of operation								-	-	-	-
10.19.5.2 Perform maintenance testing								-	-	-	-
10.19.5.3 Isolate/Repair malfunctions								-	-	-	-
10.19.6 Beam Coupler											
10.19.6.1 Theory of operation								-	-	-	-
10.19.6.2 Perform maintenance testing								-	-	-	-
10.19.6.3 Isolate/Repair malfunctions								-	-	-	-
10.19.7 Relay Box											
10.19.7.1 Theory of operation								-	-	-	-
10.19.7.2 Perform maintenance testing								-	-	-	-
10.19.7.3 Isolate/Repair malfunctions								-	-	-	-
10.19.8 Directional Gyro											
10.19.8.1 Theory of operation								-	-	-	-
10.19.8.2 Perform maintenance testing								-	-	-	-
10.19.9 Trim Tab Adapter											

C-130 and SAM TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
10.19.9.1 Theory of operation								-	-	-	-
10.19.9.2 Perform maintenance testing								-	-	-	-
10.19.10 E-4 Autopilot Test Set											
10.19.10.1 Theory of operation								-	-	-	-
10.19.10.2 Inspect/Operate								-	-	-	-
10.19.10.3 Isolate/Repair malfunctions								-	-	-	-
10.20 ENGINE INDICATING SYSTEMS TR: Applicable Technical Data											
10.20.1 Temperature											
10.20.1.1 Theory of operation								-	-	-	-
10.20.1.2 Perform maintenance testing								-	-	-	-
10.20.2 Tachometer											
10.20.2.1 Theory of operation								-	-	-	-
10.20.2.2 Perform maintenance testing								-	-	-	-
10.20.3 Pressure Indicator											
10.20.3.1 Theory of operation								-	-	-	-
10.20.3.2 Perform maintenance testing								-	-	-	-
10.20.4 Engine Pressure Ratio											
10.20.4.1 Theory of operation								-	-	-	-
10.20.4.2 Perform maintenance testing								-	-	-	-
10.20.5 Fuel Flow											
10.20.5.1 Theory of operation								-	-	-	-
10.20.5.2 Perform maintenance testing								-	-	-	-

C-130 and SAM TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
10.20.6 Fuel Quantity Ind (Capacitance Type)											
10.20.6.1 Theory of operation								-	-	-	-
10.20.6.2 Perform maintenance testing								-	-	-	-
10.20.7 Oil Quantity (Resistance Type)											
10.20.7.1 Theory of operation								-	-	-	-
10.20.7.2 Perform maintenance testing								-	-	-	-
10.20.7.3 Isolate/Repair malfunctions								-	-	-	-
10.20.7.4 Align/Adjust								-	-	-	-
10.20.8 Engine Instrument Test Set											
10.20.8.1 Theory of operation								-	-	-	-
10.20.8.2 Inspect/Operate								-	-	-	-
10.20.8.3 Calibrate								-	-	-	-
10.21 PITOT-STATIC FLIGHT INSTRUMENTS TR: Applicable Technical Data											
10.21.1 Altimeters											
10.21.1.1 Theory of operation								-	-	-	-
10.21.1.2 Perform maintenance testing								-	-	-	-
10.21.1.3 Isolate/Repair malfunctions								-	-	-	-
10.21.1.4 Align/Adjust								-	-	-	-
10.21.2 Vertical Velocity											
10.21.2.1 Theory of operation								-	-	-	-
10.21.2.2 Perform maintenance testing								-	-	-	-

C-130 and SAM TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
10.21.3 Airspeed Indicators											
10.21.3.1 Theory of operation								-	-	-	-
10.21.3.2 Perform maintenance testing								-	-	-	-
10.21.4 Altimeter test Set (TTU-229/A)											
10.21.4.1 Theory of operation								-	-	-	-
10.21.4.2 Inspect/Operate								-	-	-	-
10.21.5 TTU-205E/F Pressure Test Set											
10.21.5.1 Theory of operation								-	-	-	-
10.21.5.2 Inspect/Operate								-	-	-	-
10.22 PERIODIC SEXTANT SYSTEM TR: Applicable Technical Data											
10.22.1 Sextant											
10.22.1.1 Theory of operation								-	-	-	-
10.22.1.2 Perform maintenance testing								-	-	-	-
10.22.1.3 Isolate/Repair malfunctions								-	-	-	-
10.22.2 Four Point Collimator											
10.22.2.1 Theory of operation								-	-	-	-
10.22.2.2 Inspect/Operate								-	-	-	-
10.22.2.3 Calibrate								-	-	-	-
10.23 ACCELEROMETERS TR: Applicable Technical Data											
10.23.1 Theory of operation								-	-	-	-
10.23.2 Perform maintenance testing								-	-	-	-
10.23.3 Rate Table											

C-130 and SAM TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
10.23.3.1 Theory of operation								-	-	-	-
10.23.3.2 Inspect/Operate								-	-	-	-
10.23.3.3 Isolate/Repair malfunctions								-	-	-	-
10.24 AWADS RADAR TR: Applicable Technical Data											
10.24.1 Receiver/Transmitter X-Band											
10.24.1.1 Theory of operation								-	-	-	-
10.24.1.2 Perform maintenance testing								-	-	-	-
10.24.1.3 Isolate/Repair malfunctions								-	-	-	-
10.24.1.4 Align/Adjust								-	-	-	-
10.24.2 Receiver/Transmitter K-Band											
10.24.2.1 Theory of operation								-	-	-	-
10.24.2.2 Perform maintenance testing								-	-	-	-
10.24.2.3 Isolate/Repair malfunctions								-	-	-	-
10.24.2.4 Align/Adjust								-	-	-	-
10.24.3 Antenna											
10.24.3.1 Theory of operation								-	-	-	-
10.24.3.2 Perform maintenance testing								-	-	-	-
10.24.3.3 Isolate/Repair malfunctions								-	-	-	-
10.24.3.4 Align/Adjust								-	-	-	-
10.24.4 Power Supply											
10.24.4.1 Theory of operation								-	-	-	-

C-130 and SAM TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
10.24.4.2 Perform maintenance testing								-	-	-	-
10.24.4.3 Isolate/Repair malfunctions								-	-	-	-
10.24.4.4 Align/Adjust								-	-	-	-
10.24.5 Radar Control Box											
10.24.5.1 Theory of operation								-	-	-	-
10.24.5.2 Perform maintenance testing								-	-	-	-
10.24.5.3 Isolate/Repair malfunctions								-	-	-	-
10.24.5.4 Align/Adjust								-	-	-	-
10.24.6 Pilot Scope											
10.24.6.1 Theory of operation								-	-	-	-
10.24.6.2 Perform maintenance testing								-	-	-	-
10.24.6.3 Isolate/Repair malfunctions								-	-	-	-
10.24.6.4 Align/Adjust								-	-	-	-
10.24.7 Navigator Scope											
10.24.7.1 Theory of operation								-	-	-	-
10.24.7.2 Perform maintenance testing								-	-	-	-
10.24.7.3 Isolate/Repair malfunctions								-	-	-	-
10.24.7.4 Align/Adjust								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
ATTACHMENT 11											
NOTE 1: All course requirements are trained in the 3-level resident wartime course.											
NOTE 2: Core Tasks are identified by an asterisk (*) in the appropriate column. Core tasks identified with an *R are optional for ANG and AFRC.											
NOTE 3: Users are responsible for annotating training references to identify current references pending STS revision.											
NOTE 4: Address comments and recommended changes through the MAJCOM Functional Managers to the AETC Training Manager, DSN 736-7899.											
11 C-135 and E-4 TRAINING REQUIREMENTS											
11.1 HF COMMUNICATIONS (ARC-190) TR: Applicable Technical Data											
11.1.1 HF Receiver/Transmitter											
11.1.1.1 Theory of operation								-	-	-	-
11.1.1.2 Perform maintenance testing								-	-	-	-
11.1.1.3 Isolate/Repair malfunctions								-	-	-	-
11.1.2 HF Coupler											
11.1.2.1 Theory of operation								-	-	-	-
11.1.2.2 Perform maintenance testing								-	-	-	-
11.1.2.3 Isolate/Repair malfunctions								-	-	-	-
11.1.3 HF Control Box											
11.1.3.1 Theory of operation								-	-	-	-
11.1.3.2 Perform maintenance testing								-	-	-	-
11.1.3.3 Isolate/Repair malfunctions								-	-	-	-
11.1.4 HF Mount											
11.1.4.1 Theory of operation								-	-	-	-
11.1.4.2 Perform maintenance testing								-	-	-	-
11.1.4.3 Isolate/Repair malfunctions								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.1.5 Lightning Arrestor											
11.1.5.1 Theory of operation								-	-	-	-
11.1.5.2 Perform maintenance testing								-	-	-	-
11.1.6 HF Test Set											
11.1.6.1 Theory of operation								-	-	-	-
11.1.6.2 Inspect/Operate								-	-	-	-
11.1.6.3 Calibrate								-	-	-	-
11.1.6.4 Isolate/Repair malfunctions								-	-	-	-
11.2 INTERPHONE SYSTEMS											
11.2.1 AIC-10 Interphone System TR: Applicable Technical Data											
11.2.1.1 Theory of operation								-	-	-	-
11.2.1.2 Perform Operational Checks								-	-	-	-
11.2.1.3 Isolate/Repair malfunction								-	-	-	-
11.2.2 AIC-18 Interphone System TR: Applicable Technical Data											
11.2.2.1 Theory of operation								-	-	-	-
11.2.2.2 Perform Operational Checks								-	-	-	-
11.2.2.3 Isolate/Repair malfunction								-	-	-	-
11.2.3 AIC-25 Interphone System TR: Applicable Technical Data											
11.2.3.1 Theory of operation								-	-	-	-
11.2.3.2 Perform Operational Checks								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
11.2.3.3 Isolate/Repair malfunctions								-	-	-	-
11.2.4 Interphone Test Set											
11.2.4.1 Theory of operation								-	-	-	-
11.2.4.2 Inspect/Operate								-	-	-	-
11.2.4.3 Isolate/Repair malfunctions								-	-	-	-
11.3 Search and Weather Radar AN/APN-59 System TR: 12P5-2APN59-62/64											
11.3.1 Theory of operation								-	-	-	-
11.3.2 Receiver/Transmitter RT-813B											
11.3.2.1 Theory of operation								-	-	-	-
11.3.2.2 Perform Operational Checks								-	-	-	-
11.3.2.3 Isolate/Repair malfunctions								-	-	-	-
11.3.3 Receiver/Transmitter RT-289G											
11.3.3.1 Theory of operation								-	-	-	-
11.3.3.2 Perform Operational Checks								-	-	-	-
11.3.3.3 Isolate/Repair malfunctions								-	-	-	-
11.3.4 Antenna AS-653C											
11.3.4.1 Theory of operation								-	-	-	-
11.3.4.2 Perform Operational Checks								-	-	-	-
11.3.4.3 Isolate/Repair malfunctions								-	-	-	-
11.3.5 Antenna AS-1199B											
11.3.5.1 Theory of operation								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.3.5.2 Perform Operational Checks								-	-	-	-
11.3.5.3 Isolate/Repair malfunctions								-	-	-	-
11.3.6 Indicator IP-239											
11.3.6.1 Theory of operation								-	-	-	-
11.3.6.2 Perform Operational Checks								-	-	-	-
11.3.6.3 Isolate/Repair malfunctions								-	-	-	-
11.3.7 Indicator IP-268											
11.3.7.1 Theory of operation								-	-	-	-
11.3.7.2 Perform Operational Checks								-	-	-	-
11.3.7.3 Isolate/Repair malfunctions								-	-	-	-
11.3.8 Electronic Control Amplifier AM-853											
11.3.8.1 Theory of operation								-	-	-	-
11.3.8.2 Perform Operational Checks								-	-	-	-
11.3.8.3 Isolate/Repair malfunctions								-	-	-	-
11.3.9 Synchro SN-198											
11.3.9.1 Theory of operation								-	-	-	-
11.3.9.2 Perform Operational Checks								-	-	-	-
11.3.9.3 Isolate/Repair malfunctions								-	-	-	-
11.3.10 Control Set C-1242											
11.3.10.1 Theory of operation								-	-	-	-
11.3.10.2 Perform Operational Checks								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
11.3.10.3 Isolate/Repair malfunctions								-	-	-	-
11.3.11 Power Supply PP-1073											
11.3.11.1 Theory of operation								-	-	-	-
11.3.11.2 Perform Operational Checks								-	-	-	-
11.3.11.3 Isolate/Repair malfunctions								-	-	-	-
11.3.12 Fan HD-150											
11.3.12.1 Theory of operation								-	-	-	-
11.3.12.2 Perform Operational Checks								-	-	-	-
11.3.12.3 Isolate/Repair malfunctions								-	-	-	-
11.3.13 Radar Test Set (UPM-145)											
11.3.13.1 Theory of operation								-	-	-	-
11.3.13.2 Inspect/Operate								-	-	-	-
11.4 Color Weather Radar APS-133 TR: TOs 12P6-2APS133-12, 12P6-2APS133-32, 12P6-2APS133-42											
11.4.1 RTA-1FB(M)											
11.4.1.1 Theory of operation								-	-	-	-
11.4.1.2 Align								-	-	-	-
11.4.1.3 Inspect								-	-	-	-
11.4.1.4 Isolate/repair malfunctions								-	-	-	-
11.4.2 Receiver-Transmitter RT-1338											
11.4.2.1 Theory of operation								-	-	-	-
11.4.2.2 Perform Operational Checks								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.4.2.3 Isolate/Repair malfunctions								-	-	-	-
11.4.3 Set Control C-10814											
11.4.3.1 Theory of operation								-	-	-	-
11.4.3.2 Perform Operational Checks								-	-	-	-
11.4.3.3 Isolate/Repair malfunctions								-	-	-	-
11.4.4 Set Control C-11565											
11.4.4.1 Theory of operation								-	-	-	-
11.4.4.2 Perform Operational Checks								-	-	-	-
11.4.4.3 Isolate/Repair malfunctions								-	-	-	-
11.4.5 Antenna AS-3400											
11.4.5.1 Theory of operation								-	-	-	-
11.4.5.2 Perform Operational Checks								-	-	-	-
11.4.5.3 Isolate/Repair malfunctions								-	-	-	-
11.4.6 Indicator IP-1374											
11.4.6.1 Theory of operation								-	-	-	-
11.4.6.2 Perform Operational Checks								-	-	-	-
11.4.6.3 Isolate/Repair malfunctions								-	-	-	-
11.5 Identification Friend-or-Foe (IFF) APX-64 /72 IFF Systems											
11.5.1 Receiver-Transmitter RT-728 TR: 12P4-2APX64-2											
11.5.1.1 Theory of operation								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.5.1.2 Perform Operational Checks								-	-	-	-
11.5.1.3 Isolate/Repair malfunctions								-	-	-	-
11.5.2 Receiver-Transmitter RT-859A TR: 12P4-2APX72-2											
11.5.2.1 Theory of operation								-	-	-	-
11.5.2.2 Perform Operational Checks								-	-	-	-
11.5.2.3 Isolate/Repair malfunctions								-	-	-	-
11.5.3 Control Set C-6280 TR: 12P4-2APX64-2											
11.5.3.1 Theory of operation								-	-	-	-
11.5.3.2 Perform Operational Checks								-	-	-	-
11.5.3.3 Isolate/Repair malfunctions								-	-	-	-
11.5.4 Test Set TS-1843 TR: 12P4-2APX64-2											
11.5.4.1 Theory of operation								-	-	-	-
11.5.4.2 Perform Operational Checks								-	-	-	-
11.5.4.3 Isolate/Repair malfunctions								-	-	-	-
11.6 Electronic Altimeter AL-101 System											
11.6.1 Receiver-Transmitter 860F-1 TR: 12R5-4-75-12											
11.6.1.1 Theory of operation								-	-	-	-
11.6.1.2 Perform Operational Checks								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.6.1.3 Isolate/Repair malfunctions								-	-	-	-
11.7 Aircraft Switching Panel Assy G000815 TR: ETM-RC135V/W-22											
11.7.1 Theory of operation								-	-	-	-
11.7.2 Perform Operational Checks								-	-	-	-
11.7.3 Isolate/Repair malfunctions								-	-	-	-
11.8 Guard Audio Transmitter G000562-1 TR: ETM-RC135V/W-22											
11.8.1 Theory of operation								-	-	-	-
11.8.2 Perform Operational Checks								-	-	-	-
11.8.3 Isolate/Repair malfunctions								-	-	-	-
11.9 Communication Control Panel AN/ASC-21 TR: 12R2-4-198-2											
11.9.1 Theory of operation								-	-	-	-
11.9.2 Perform Operational Checks								-	-	-	-
11.9.3 Isolate/Repair malfunctions								-	-	-	-
11.10 Crash Position Indicator (CPI) TR: 12R2-2URT26-2											
11.10.1 Theory of operation								-	-	-	-
11.10.2 Perform Operational Checks								-	-	-	-
11.10.3 Isolate/Repair malfunctions								-	-	-	-
11.11 AFSATCOM SYSTEM HPA AM-6727/A TR: 12R2-2A-402											

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.11.1 Theory of operation								-	-	-	-
11.11.2 Perform Operational Checks								-	-	-	-
11.11.3 Isolate/Repair malfunctions								-	-	-	-
11.11.4 Logic Power Supply Mount TR: 12R2-2ARA64-2											
11.11.4.1 Theory of operation								-	-	-	-
11.11.4.2 Perform Operational Checks								-	-	-	-
11.11.4.3 Isolate/Repair malfunctions								-	-	-	-
11.11.5 RF Amplifier AM-6728 TR: 12R2-2U-264											
11.11.5.1 Theory of operation								-	-	-	-
11.11.5.2 Perform Operational Checks								-	-	-	-
11.11.5.3 Isolate/Repair malfunctions								-	-	-	-
11.11.6 RF Amplifier AM-6992/U TR: 12R2-2U-322											
11.11.6.1 Theory of operation								-	-	-	-
11.11.6.2 Perform Operational Checks								-	-	-	-
11.11.6.3 Isolate/Repair malfunctions								-	-	-	-
11.11.7 Control Indicator C-10080 TR: 12R2-2A-422											
11.11.7.1 Theory of operation								-	-	-	-
11.11.7.2 Perform Operational Checks								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
11.11.7.3 Isolate/Repair malfunctions								-	-	-	-
11.11.8 Control Sync C-10081 TR: 12R2-2U-182-1											
11.11.8.1 Theory of operation								-	-	-	-
11.11.8.2 Perform Operational Checks								-	-	-	-
11.11.8.3 Isolate/Repair malfunctions								-	-	-	-
11.11.9 Control Power Supply C-10091 TR: 12R2-2A-422											
11.11.9.1 Theory of operation								-	-	-	-
11.11.9.2 Perform Operational Checks								-	-	-	-
11.11.9.3 Isolate/Repair malfunctions								-	-	-	-
11.11.10 Control Indicator C-10357 TR: 12R2-2A-492											
11.11.10.1 Theory of operation								-	-	-	-
11.11.10.2 Perform Operational Checks								-	-	-	-
11.11.10.3 Isolate/Repair malfunctions								-	-	-	-
11.11.11 Teletype Line Controls C-10415 TR: 12R2-2U-202											
11.11.11.1 Theory of operation								-	-	-	-
11.11.11.2 Perform Operational Checks								-	-	-	-
11.11.11.3 Isolate/Repair malfunctions								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
11.11.12 Teletype Line Controls C-10416 TR: 12R2-2U-202												
11.11.12.1 Theory of operation								-	-	-	-	
11.11.12.2 Perform Operational Checks								-	-	-	-	
11.11.12.3 Isolate/Repair malfunctions								-	-	-	-	
11.11.13 Data Converter C-10460A/U TR: 12R2-2U-172												
11.11.13.1 Theory of operation								-	-	-	-	
11.11.13.2 Perform Operational Checks								-	-	-	-	
11.11.13.3 Isolate/Repair malfunctions								-	-	-	-	
11.11.14 Comm. System Control Indicator C-10615/G TR: 31R5-2G-301												
11.11.14.1 Theory of operation								-	-	-	-	
11.11.14.2 Perform Operational Checks								-	-	-	-	
11.11.14.3 Isolate/Repair malfunctions								-	-	-	-	
11.11.15 RF Control C-10747/G TR: 31R5-2G-321												
11.11.15.1 Theory of operation								-	-	-	-	
11.11.15.2 Perform Operational Checks								-	-	-	-	
11.11.15.3 Isolate/Repair malfunctions								-	-	-	-	
11.11.16 Control Indicator C-10748/G TR: 31R5-4-193-1												

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
11.11.16.1 Theory of operation								-	-	-	-
11.11.16.2 Perform Operational Checks								-	-	-	-
11.11.16.3 Isolate/Repair malfunctions								-	-	-	-
11.11.17 LOS Radio Control C-11307 TR: 12R2-2ARC171-2											
11.11.17.1 Theory of operation								-	-	-	-
11.11.17.2 Perform Operational Checks								-	-	-	-
11.11.17.3 Isolate/Repair malfunctions								-	-	-	-
11.11.18 LOS Radio Control C-9665 TR: 12R2-2A--462											
11.11.18.1 Theory of operation								-	-	-	-
11.11.18.2 Perform Operational Checks								-	-	-	-
11.11.18.3 Isolate/Repair malfunctions								-	-	-	-
11.11.19 Control Sync C-9685 TR: 12R2-2U-1221											
11.11.19.1 Theory of operation								-	-	-	-
11.11.19.2 Perform Operational Checks								-	-	-	-
11.11.19.3 Isolate/Repair malfunctions								-	-	-	-
11.11.20 1X8 Modem Control C-9688 TR: 12R2-2U-162-1											
11.11.20.1 Theory of operation								-	-	-	-
11.11.20.2 Perform Operational Checks								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.11.20.3 Isolate/Repair malfunctions								-	-	-	-
11.11.21 Wide Band Control C-9689 TR: 12R2-2U-362											
11.11.21.1 Theory of operation								-	-	-	-
11.11.21.2 Perform Operational Checks								-	-	-	-
11.11.21.3 Isolate/Repair malfunctions								-	-	-	-
11.11.22 Control Synchronizer C-9691 TR: 12R2-2U-122											
11.11.22.1 Theory of operation								-	-	-	-
11.11.22.2 Perform Operational Checks								-	-	-	-
11.11.22.3 Isolate/Repair malfunctions								-	-	-	-
11.11.23 Frequency Select Control C-9693 TR: 31R2-4-479-1											
11.11.23.1 Theory of operation								-	-	-	-
11.11.23.2 Perform Operational Checks								-	-	-	-
11.11.23.3 Isolate/Repair malfunctions								-	-	-	-
11.11.24 RT Control C-9694 TR: 12R2-2U-292											
11.11.24.1 Theory of operation								-	-	-	-
11.11.24.2 Perform Operational Checks								-	-	-	-
11.11.24.3 Isolate/Repair malfunctions								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
11.11.25 Teletype Line Control C-9696 TR: 12R2-2U-222												
11.11.25.1 Theory of operation								-	-	-	-	
11.11.25.2 Perform Operational Checks								-	-	-	-	
11.11.25.3 Isolate/Repair malfunctions								-	-	-	-	
11.11.26 Bandpass Filter F-1554 TR: 12R2-2ARC171-12												
11.11.26.1 Theory of operation								-	-	-	-	
11.11.26.2 Perform Operational Checks								-	-	-	-	
11.11.26.3 Isolate/Repair malfunctions								-	-	-	-	
11.11.27 Bandpass Filter F-1569 TR: 12R2-2ARC171-12												
11.11.27.1 Theory of operation								-	-	-	-	
11.11.27.2 Perform Operational Checks								-	-	-	-	
11.11.27.3 Isolate/Repair malfunctions								-	-	-	-	
11.11.28 Fault Panel ID-2222/G TR: 31R5-2G-311												
11.11.28.1 Theory of operation								-	-	-	-	
11.11.28.2 Perform Operational Checks								-	-	-	-	
11.11.28.3 Isolate/Repair malfunctions								-	-	-	-	
11.11.29 EMP Module J-3697 TR: 12R2-4-204-2												
11.11.29.1 Theory of operation								-	-	-	-	
11.11.29.2 Perform Operational Checks								-	-	-	-	

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
11.11.29.3 Isolate/Repair malfunctions								-	-	-	-
11.11.30 Modem MD-1035A/A TR: 12R2-2A-492											
11.11.30.1 Theory of operation								-	-	-	-
11.11.30.2 Perform Operational Checks								-	-	-	-
11.11.30.3 Isolate/Repair malfunctions								-	-	-	-
11.11.31 1X3 Modem MD-951 TR: 12R2-2U-142											
11.11.31.1 Theory of operation								-	-	-	-
11.11.31.2 Perform Operational Checks								-	-	-	-
11.11.31.3 Isolate/Repair malfunctions								-	-	-	-
11.11.32 WB Modem MD-952 TR: 12R2-2U-342											
11.11.32.1 Theory of operation								-	-	-	-
11.11.32.2 Perform Operational Checks								-	-	-	-
11.11.32.3 Isolate/Repair malfunctions								-	-	-	-
11.11.33 1X1 Modem MD-953 TR: 12R2-2U-142											
11.11.33.1 Theory of operation								-	-	-	-
11.11.33.2 Perform Operational Checks								-	-	-	-
11.11.33.3 Isolate/Repair malfunctions								-	-	-	-
11.11.34 Mounting Base MT-4714 TR: 12R2-2A-402											
11.11.34.1 Theory of operation								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.11.34.2 Perform Operational Checks								-	-	-	-
11.11.34.3 Isolate/Repair malfunctions								-	-	-	-
11.11.35 Mounting Base MT-4850 TR: 12R2-2A-422											
11.11.35.1 Theory of operation								-	-	-	-
11.11.35.2 Perform Operational Checks								-	-	-	-
11.11.35.3 Isolate/Repair malfunctions								-	-	-	-
11.11.36 Mounting Base MT-4854 TR: 12R2-2U-202											
11.11.36.1 Theory of operation								-	-	-	-
11.11.36.2 Perform Operational Checks								-	-	-	-
11.11.36.3 Isolate/Repair malfunctions								-	-	-	-
11.11.37 Modem Mount MT-4956 TR: 12R2-2A-492											
11.11.37.1 Theory of operation								-	-	-	-
11.11.37.2 Perform Operational Checks								-	-	-	-
11.11.37.3 Isolate/Repair malfunctions								-	-	-	-
11.11.38 Filter Mount MT-6316 TR: 12R2-2ARC171-12											
11.11.38.1 Theory of operation								-	-	-	-
11.11.38.2 Perform Operational Checks								-	-	-	-
11.11.38.3 Isolate/Repair malfunctions								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.11.39 Mono Filter Mount MT-6414 TR: 12R2-2ARC171-12											
11.11.39.1 Theory of operation								-	-	-	-
11.11.39.2 Perform Operational Checks								-	-	-	-
11.11.39.3 Isolate/Repair malfunctions								-	-	-	-
11.11.40 Quad Filter Mount MT-6415 TR: 12R2-2ARC171-12											
11.11.40.1 Theory of operation								-	-	-	-
11.11.40.2 Perform Operational Checks								-	-	-	-
11.11.40.3 Isolate/Repair malfunctions								-	-	-	-
11.11.41 Power Supply PP-7118 TR: 12R2-2A-402											
11.11.41.1 Theory of operation								-	-	-	-
11.11.41.2 Perform Operational Checks								-	-	-	-
11.11.41.3 Isolate/Repair malfunctions								-	-	-	-
11.11.42 Power Supply PP-7120/G TR: 31R2-4-477-1											
11.11.42.1 Theory of operation								-	-	-	-
11.11.42.2 Perform Operational Checks								-	-	-	-
11.11.42.3 Isolate/Repair malfunctions								-	-	-	-
11.11.43 Power Supply PP-7121 TR: 12R2-2U-132											
11.11.43.1 Theory of operation								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.11.43.2 Perform Operational Checks								-	-	-	-
11.11.43.3 Isolate/Repair malfunctions								-	-	-	-
11.11.44 Receiver-Transmitter RT-1256 TR: 12R2-2A-412											
11.11.44.1 Theory of operation								-	-	-	-
11.11.44.2 Perform Operational Checks								-	-	-	-
11.11.44.3 Isolate/Repair malfunctions								-	-	-	-
11.11.45 Receiver-Transmitter RT-1258 TR: 12R2-4-196-2											
11.11.45.1 Theory of operation								-	-	-	-
11.11.45.2 Perform Operational Checks								-	-	-	-
11.11.45.3 Isolate/Repair malfunctions								-	-	-	-
11.11.46 Receiver-Transmitter RT-1263 TR: 12R2-2A-412											
11.11.46.1 Theory of operation								-	-	-	-
11.11.46.2 Perform Operational Checks								-	-	-	-
11.11.46.3 Isolate/Repair malfunctions								-	-	-	-
11.11.47 Receiver-Transmitter RT-1264 TR: 12R2-2A-412											
11.11.47.1 Theory of operation								-	-	-	-
11.11.47.2 Perform Operational Checks								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.11.47.3 Isolate/Repair malfunctions								-	-	-	-
11.11.48 Receiver-Transmitter RT-1266 TR: 12R2-4-196-2											
11.11.48.1 Theory of operation								-	-	-	-
11.11.48.2 Perform Operational Checks								-	-	-	-
11.11.48.3 Isolate/Repair malfunctions								-	-	-	-
11.11.49 Receiver-Transmitter RT-1270 TR: 12R2-2A-412											
11.11.49.1 Theory of operation								-	-	-	-
11.11.49.2 Perform Operational Checks								-	-	-	-
11.11.49.3 Isolate/Repair malfunctions								-	-	-	-
11.11.50 Receiver-Transmitter RT-1440 TR: 12R2-4-196-2											
11.11.50.1 Theory of operation								-	-	-	-
11.11.50.2 Perform Operational Checks								-	-	-	-
11.11.50.3 Isolate/Repair malfunctions								-	-	-	-
11.11.51 Hi-Volts Indicator SA-1678 TR: 12R2-2ARA64-2											
11.11.51.1 Theory of operation								-	-	-	-
11.11.51.2 Perform Operational Checks								-	-	-	-
11.11.51.3 Isolate/Repair malfunctions								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.11.52 RF Switching Unit SA-2106 TR: 12R2-2A-482											
11.11.52.1 Theory of operation								-	-	-	-
11.11.52.2 Perform Operational Checks								-	-	-	-
11.11.52.3 Isolate/Repair malfunctions								-	-	-	-
11.11.53 Paper Take-up Unit TT-564 TR: 12R2-4-145-1											
11.11.53.1 Theory of operation								-	-	-	-
11.11.53.2 Perform Operational Checks								-	-	-	-
11.11.53.3 Isolate/Repair malfunctions								-	-	-	-
11.11.54 Printer TT-712 TR: 12R2-2A-422											
11.11.54.1 Theory of operation								-	-	-	-
11.11.54.2 Perform Operational Checks								-	-	-	-
11.11.54.3 Isolate/Repair malfunctions								-	-	-	-
11.12 PACER LINK SYSTEM											
11.12.1 UHF Set Control C-11503 TR: 12R2-2ARC171-108-1											
11.12.1.1 Theory of operation								-	-	-	-
11.12.1.2 Perform Operational Checks								-	-	-	-
11.12.1.3 Isolate/Repair malfunctions								-	-	-	-
11.12.2 UHF Display C-11504 TR: 12R2-2ARC171-108-1											
11.12.2.1 Theory of operation								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
11.12.2.2 Perform Operational Checks								-	-	-	-
11.12.2.3 Isolate/Repair malfunctions								-	-	-	-
11.12.3 UHF Modem MD-1172 TR: 12R2-2ARC171-108-1											
11.12.3.1 Theory of operation								-	-	-	-
11.12.3.2 Perform Operational Checks								-	-	-	-
11.12.3.3 Isolate/Repair malfunctions								-	-	-	-
11.13 ARC-89 (APM) System											
11.13.1 Amplifier Assembly AM-6078 TR: 12R2-2ARC89-252											
11.13.1.1 Theory of operation								-	-	-	-
11.13.1.2 Perform Operational Checks								-	-	-	-
11.13.1.3 Isolate/Repair malfunctions								-	-	-	-
11.13.2 Squelch Over Ride Panel C-7744 TR: 12R2-2ARC89-252											
11.13.2.1 Theory of operation								-	-	-	-
11.13.2.2 Perform Operational Checks								-	-	-	-
11.13.2.3 Isolate/Repair malfunctions								-	-	-	-
11.13.3 APM Selector Panel C-7745 TR: 12R2-2ARC89-252											
11.13.3.1 Theory of operation								-	-	-	-
11.13.3.2 Perform Operational Checks								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
11.13.3.3 Isolate/Repair malfunctions								-	-	-	-
11.13.4 Brain Bucket C-7757 TR: 12R2-2ARC89-252											
11.13.4.1 Theory of operation								-	-	-	-
11.13.4.2 Perform Operational Checks								-	-	-	-
11.13.4.3 Isolate/Repair malfunctions								-	-	-	-
11.13.5 Baseband Signal Attenuator CN-1257 TR: 12R2-2ARC89-252											
11.13.5.1 Theory of operation								-	-	-	-
11.13.5.2 Perform Operational Checks								-	-	-	-
11.13.5.3 Isolate/Repair malfunctions								-	-	-	-
11.13.6 Amplifier Assembly AM-6867 TR: 12R2-2ARC89-272											
11.13.6.1 Theory of operation								-	-	-	-
11.13.6.2 Perform Operational Checks								-	-	-	-
11.13.6.3 Isolate/Repair malfunctions								-	-	-	-
11.13.7 Hand Set Control C-10033 TR: 12R2-2ARC89-272											
11.13.7.1 Theory of operation								-	-	-	-
11.13.7.2 Perform Operational Checks								-	-	-	-
11.13.7.3 Isolate/Repair malfunctions								-	-	-	-
11.13.8 Hand Set Control H-234 TR: 12R2-2ARC89-272											

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.13.8.1 Theory of operation								-	-	-	-
11.13.8.2 Perform Operational Checks								-	-	-	-
11.13.8.3 Isolate/Repair malfunctions								-	-	-	-
11.13.9 Keyer Control C-8942 TR: 12R2-2ARC89-262											
11.13.9.1 Theory of operation								-	-	-	-
11.13.9.2 Perform Operational Checks								-	-	-	-
11.13.9.3 Isolate/Repair malfunctions								-	-	-	-
11.13.10 Antenna Switching Control C-6284 TR: 12R2-2ARC89-73											
11.13.10.1 Theory of operation								-	-	-	-
11.13.10.2 Perform Operational Checks								-	-	-	-
11.13.10.3 Isolate/Repair malfunctions								-	-	-	-
11.13.11 Radio Frequency Indicator ID-1222 TR: 12R2-2ARC89-83											
11.13.11.1 Theory of operation								-	-	-	-
11.13.11.2 Perform Operational Checks								-	-	-	-
11.13.11.3 Isolate/Repair malfunctions								-	-	-	-
11.13.12 AGC Meter ID-1584 TR: 12R2-2ARC89-252											
11.13.12.1 Theory of operation								-	-	-	-
11.13.12.2 Perform Operational Checks								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
11.13.12.3 Isolate/Repair malfunctions								-	-	-	-
11.13.13 PT Meter ID-1585 TR: 12R2-2ARC89-252											
11.13.13.1 Theory of operation								-	-	-	-
11.13.13.2 Perform Operational Checks								-	-	-	-
11.13.13.3 Isolate/Repair malfunctions								-	-	-	-
11.13.14 Noise Meter ID-1586 TR: 12R2-2ARC89-252											
11.13.14.1 Theory of operation								-	-	-	-
11.13.14.2 Perform Operational Checks								-	-	-	-
11.13.14.3 Isolate/Repair malfunctions								-	-	-	-
11.13.15 Low Power Indicator ID-1587 TR: 12R2-2ARC89-252											
11.13.15.1 Theory of operation								-	-	-	-
11.13.15.2 Perform Operational Checks								-	-	-	-
11.13.15.3 Isolate/Repair malfunctions								-	-	-	-
11.13.16 Squelch Indicator ID-1588 TR: 12R2-2ARC89-252											
11.13.16.1 Theory of operation								-	-	-	-
11.13.16.2 Perform Operational Checks								-	-	-	-
11.13.16.3 Isolate/Repair malfunctions								-	-	-	-
11.13.17 Power Meter ID-1597 TR: 12R2-2ARC89-252											

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.13.17.1 Theory of operation								-	-	-	-
11.13.17.2 Perform Operational Checks								-	-	-	-
11.13.17.3 Isolate/Repair malfunctions								-	-	-	-
11.13.18 RF Test Panel J-3669 TR: 12R2-2ARC89-252											
11.13.18.1 Theory of operation								-	-	-	-
11.13.18.2 Perform Operational Checks								-	-	-	-
11.13.18.3 Isolate/Repair malfunctions								-	-	-	-
11.14 PEACE KEEPER (ALCC)											
11.14.1 ALCS Test Set USM-623(V)2 TR: 33D7-38-258-1											
11.14.1.1 Theory of operation								-	-	-	-
11.14.1.2 Perform Operational Checks								-	-	-	-
11.14.1.3 Isolate/Repair malfunctions								-	-	-	-
11.14.2 Display Set Control 03-2701165-2 TR: 31X3-10-75-8-7											
11.14.2.1 Theory of operation								-	-	-	-
11.14.2.2 Perform Operational Checks								-	-	-	-
11.14.2.3 Isolate/Repair malfunctions								-	-	-	-
11.14.3 Keyboard Input Device 29480-02 TR: 31X3-10-75-8-6											
11.14.3.1 Theory of operation								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.14.3.2 Perform Operational Checks								-	-	-	-
11.14.3.3 Isolate/Repair malfunctions								-	-	-	-
11.14.4 Mass Storage Device/Loader L200016655 TR: 31X7-24-8-8-3											
11.14.4.1 Theory of operation								-	-	-	-
11.14.4.2 Perform Operational Checks								-	-	-	-
11.14.4.3 Isolate/Repair malfunctions								-	-	-	-
11.14.5 Portable Store Unit L200016653 TR: 31X7-24-8-8-4											
11.14.5.1 Theory of operation								-	-	-	-
11.14.5.2 Perform Operational Checks								-	-	-	-
11.14.5.3 Isolate/Repair malfunctions								-	-	-	-
11.14.6 Multifunction Selector 03-2701171-3 TR: 31X3-10-75-8-8											
11.14.6.1 Theory of operation								-	-	-	-
11.14.6.2 Perform Operational Checks								-	-	-	-
11.14.6.3 Isolate/Repair malfunctions								-	-	-	-
11.14.7 ALCS Power Supply 407-49650-24 TR: 31X3-13-34-1											
11.14.7.1 Theory of operation								-	-	-	-
11.14.7.2 Perform Operational Checks								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
11.14.7.3 Isolate/Repair malfunctions								-	-	-	-
11.14.8 Code Retaining Power Supply TR: 31X3-13-4-1											
11.14.8.1 Theory of operation								-	-	-	-
11.14.8.2 Perform Operational Checks								-	-	-	-
11.14.8.3 Isolate/Repair malfunctions								-	-	-	-
11.14.9 Visual Display Unit 03-1345186-1 TR: 11G6-5-8-1											
11.14.9.1 Theory of operation								-	-	-	-
11.14.9.2 Perform Operational Checks								-	-	-	-
11.14.9.3 Isolate/Repair malfunctions								-	-	-	-
11.14.10 Waveform Converter 407-49100-1 TR: 31X3-10-77-8-3											
11.14.10.1 Theory of operation								-	-	-	-
11.14.10.2 Perform Operational Checks								-	-	-	-
11.14.10.3 Isolate/Repair malfunctions								-	-	-	-
11.14.11 ALCS Processor 1666B TR: 31S5-4-1772-8-1											
11.14.11.1 Theory of operation								-	-	-	-
11.14.11.2 Perform Operational Checks								-	-	-	-
11.14.11.3 Isolate/Repair malfunctions								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.14.12 ALCS Expansion Unit 2166B TR: 31S5-4-1773-8-1											
11.14.12.1 Theory of operation								-	-	-	-
11.14.12.2 Perform Operational Checks								-	-	-	-
11.14.12.3 Isolate/Repair malfunctions								-	-	-	-
11.14.13 Demodulator/Decoder 407-30088-4 TR: 31X3-10-77-8-4											
11.14.13.1 Theory of operation								-	-	-	-
11.14.13.2 Perform Operational Checks								-	-	-	-
11.14.13.3 Isolate/Repair malfunctions								-	-	-	-
11.14.14 Tempest Isolation Filter 407-49400-3 TR: 31X3-10-73-11											
11.14.14.1 Theory of operation								-	-	-	-
11.14.14.2 Perform Operational Checks								-	-	-	-
11.14.14.3 Isolate/Repair malfunctions								-	-	-	-
11.14.15 Teleprinter Electrograph TT-772(P)/G TR: 31W4-4-317-8-1											
11.14.15.1 Theory of operation								-	-	-	-
11.14.15.2 Perform Operational Checks								-	-	-	-
11.14.15.3 Isolate/Repair malfunctions								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.14.16 Teleprinter Electrograph TT-773(P)/G TR: 31W4-4-317-8-1											
11.14.16.1 Theory of operation								-	-	-	-
11.14.16.2 Perform Operational Checks								-	-	-	-
11.14.16.3 Isolate/Repair malfunctions								-	-	-	-
11.14.17 Interconnecting Box 407-49022-5 TR: 31X3-10-77-1											
11.14.17.1 Theory of operation								-	-	-	-
11.14.17.2 Perform Operational Checks								-	-	-	-
11.14.17.3 Isolate/Repair malfunctions								-	-	-	-
11.15. MILSTAR SYSTEM											
11.15.1 MILSTAR Test Station GSM-322 TR: 33D7-38-259-1											
11.15.1.1 Theory of operation								-	-	-	-
11.15.1.2 Perform Operational Checks								-	-	-	-
11.15.1.3 Isolate/Repair malfunctions								-	-	-	-
11.15.2 RF Amplifier AM-7361 TR: 12R2-2ARC208-32											
11.15.2.1 Theory of operation								-	-	-	-
11.15.2.2 Perform Operational Checks								-	-	-	-
11.15.2.3 Isolate/Repair malfunctions								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.15.3 Control Indicator C-11884 TR: 12R2-2ARC208-32											
11.15.3.1 Theory of operation								-	-	-	-
11.15.3.2 Perform Operational Checks								-	-	-	-
11.15.3.3 Isolate/Repair malfunctions								-	-	-	-
11.15.4 Control Indicator C-11885/U TR: 12R2-2U-412											
11.15.4.1 Theory of operation								-	-	-	-
11.15.4.2 Perform Operational Checks								-	-	-	-
11.15.4.3 Isolate/Repair malfunctions								-	-	-	-
11.15.5 Tuning Relay Controller C-12227 TR: 12R2-2A-1642											
11.15.5.1 Theory of operation								-	-	-	-
11.15.5.2 Perform Operational Checks								-	-	-	-
11.15.5.3 Isolate/Repair malfunctions								-	-	-	-
11.15.6 Power Supply PP-8194 TR: 12R2-2ARC208-208											
11.15.6.1 Theory of operation								-	-	-	-
11.15.6.2 Perform Operational Checks								-	-	-	-
11.15.6.3 Isolate/Repair malfunctions								-	-	-	-
11.15.7 ARU PT-541 TR: 31R2-4-1015-2											
11.15.7.1 Theory of operation								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.15.7.2 Perform Operational Checks								-	-	-	-
11.15.7.3 Isolate/Repair malfunctions								-	-	-	-
11.15.8 Receiver Synthesizer R-2364 TR: 12R2-2U-402											
11.15.8.1 Theory of operation								-	-	-	-
11.15.8.2 Perform Operational Checks								-	-	-	-
11.15.8.3 Isolate/Repair malfunctions								-	-	-	-
11.15.9 HSP RD-593/U TR: 31S5-4-6029-2											
11.15.9.1 Theory of operation								-	-	-	-
11.15.9.2 Perform Operational Checks								-	-	-	-
11.15.9.3 Isolate/Repair malfunctions								-	-	-	-
11.15.10 Call Box TA-1037/A TR: 31W1-4-265-2											
11.15.10.1 Theory of operation								-	-	-	-
11.15.10.2 Perform Operational Checks								-	-	-	-
11.15.10.3 Isolate/Repair malfunctions								-	-	-	-
11.15.11 Antenna Driver TG-264 TR: 31R2-2U-432											
11.15.11.1 Theory of operation								-	-	-	-
11.15.11.2 Perform Operational Checks								-	-	-	-
11.15.11.3 Isolate/Repair malfunctions								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.15.12 Antenna Drive TG-268 TR: 31R2-2T-12											
11.15.12.1 Theory of operation								-	-	-	-
11.15.12.2 Perform Operational Checks								-	-	-	-
11.15.12.3 Isolate/Repair malfunctions								-	-	-	-
11.15.13 Keyboard TT-828 TR: 12R2-2ARC208-82											
11.15.13.1 Theory of operation								-	-	-	-
11.15.13.2 Perform Operational Checks								-	-	-	-
11.15.13.3 Isolate/Repair malfunctions								-	-	-	-
11.15.14 Digital Computer CP-1837 TR: 12R2-2ARC208-2											
11.15.14.1 Theory of operation								-	-	-	-
11.15.14.2 Perform Operational Checks								-	-	-	-
11.15.14.3 Isolate/Repair malfunctions								-	-	-	-
11.15.15 Digital Computer CP-1838 TR: 12R2-2ARC208-12											
11.15.15.1 Theory of operation								-	-	-	-
11.15.15.2 Perform Operational Checks								-	-	-	-
11.15.15.3 Isolate/Repair malfunctions								-	-	-	-
11.15.16 Computer Monitor ID-2425 TR: 12R2-2ARC208-52											
11.15.16.1 Theory of operation								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.15.16.2 Perform Operational Checks								-	-	-	-
11.15.16.3 Isolate/Repair malfunctions								-	-	-	-
11.15.17 Inertial Data Assembly (IDA) TR: 12R2-2ARC208-112											
11.15.17.1 Theory of operation								-	-	-	-
11.15.17.2 Perform Operational Checks								-	-	-	-
11.15.17.3 Isolate/Repair malfunctions								-	-	-	-
11.15.18 EHF Modem MD-1234 TR: 12R2-2ARC208-22											
11.15.18.1 Theory of operation								-	-	-	-
11.15.18.2 Perform Operational Checks								-	-	-	-
11.15.18.3 Isolate/Repair malfunctions								-	-	-	-
11.15.19 Communication Modem MD-1235 TR: 12R2-2U-392											
11.15.19.1 Theory of operation								-	-	-	-
11.15.19.2 Perform Operational Checks								-	-	-	-
11.15.19.3 Isolate/Repair malfunctions								-	-	-	-
11.15.20 Time Code Generator O-1846 TR: 12R2-2U-422											
11.15.20.1 Theory of operation								-	-	-	-
11.15.20.2 Perform Operational Checks								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
11.15.20.3 Isolate/Repair malfunctions								-	-	-	-
11.15.21 TDS O-1849 TR: 31R2-2GRC228-11											
11.15.21.1 Theory of operation								-	-	-	-
11.15.21.2 Perform Operational Checks								-	-	-	-
11.15.21.3 Isolate/Repair malfunctions								-	-	-	-
11.15.22 Time Standard Module TD-1428/U TR: 12R2-2U-432											
11.15.22.1 Theory of operation								-	-	-	-
11.15.22.2 Perform Operational Checks								-	-	-	-
11.15.22.3 Isolate/Repair malfunctions								-	-	-	-
11.15.23 EPROM Burner TR: 33D7-38-259-8-6											
11.15.23.1 Theory of operation								-	-	-	-
11.15.23.2 Perform Operational Checks								-	-	-	-
11.15.23.3 Isolate/Repair malfunctions								-	-	-	-
11.16 616A (LF/VLF) SYSTEM											
11.16.1 Receiver R-2083 TR: 12R2-2ARC96-32											
11.16.1.1 Theory of operation								-	-	-	-
11.16.1.2 Perform Operational Checks								-	-	-	-
11.16.1.3 Isolate/Repair malfunctions								-	-	-	-
11.16.2 Teleprinter TT-729 TR: 12R2-2ARC96-32											

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.16.2.1 Theory of operation								-	-	-	-
11.16.2.2 Perform Operational Checks								-	-	-	-
11.16.2.3 Isolate/Repair malfunctions								-	-	-	-
11.16.3 Program Clock TD-1106 TR: 12R2-2ARC96-32											
11.16.3.1 Theory of operation								-	-	-	-
11.16.3.2 Perform Operational Checks								-	-	-	-
11.16.3.3 Isolate/Repair malfunctions								-	-	-	-
11.16.4 Receiver Coupler CU-1566 TR: 12R2-2ARC96-32											
11.16.4.1 Theory of operation								-	-	-	-
11.16.4.2 Perform Operational Checks								-	-	-	-
11.16.4.3 Isolate/Repair malfunctions								-	-	-	-
11.16.5 Master Power Panel SB-2812 TR: 12R2-2ARC96-32											
11.16.5.1 Theory of operation								-	-	-	-
11.16.5.2 Perform Operational Checks								-	-	-	-
11.16.5.3 Isolate/Repair malfunctions								-	-	-	-
11.16.6 Antenna Coupler CU-2283 TR: 12R2-2ARC96-51											
11.16.6.1 Theory of operation								-	-	-	-
11.16.6.2 Perform Operational Checks								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.16.6.3 Isolate/Repair malfunctions								-	-	-	-
11.16.7 Surge Arrestor MX-10275 TR: 12R2-2ARC96-51											
11.16.7.1 Theory of operation								-	-	-	-
11.16.7.2 Perform Operational Checks								-	-	-	-
11.16.7.3 Isolate/Repair malfunctions								-	-	-	-
11.16.8 Distribution Panel SB-4113 TR: 12R2-2ARC96-51											
11.16.8.1 Theory of operation								-	-	-	-
11.16.8.2 Perform Operational Checks								-	-	-	-
11.16.8.3 Isolate/Repair malfunctions								-	-	-	-
11.16.9 Transmitter Control C-9424 TR: 12R2-2A-102											
11.16.9.1 Theory of operation								-	-	-	-
11.16.9.2 Perform Operational Checks								-	-	-	-
11.16.9.3 Isolate/Repair malfunctions								-	-	-	-
11.16.10 Modulator MD-916 TR: 12R2-2A-102											
11.16.10.1 Theory of operation								-	-	-	-
11.16.10.2 Perform Operational Checks								-	-	-	-
11.16.10.3 Isolate/Repair malfunctions								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.16.11 Demodulator MD-917 TR: 12R2-2A-102											
11.16.11.1 Theory of operation								-	-	-	-
11.16.11.2 Perform Operational Checks								-	-	-	-
11.16.11.3 Isolate/Repair malfunctions								-	-	-	-
11.17 COMPASS SYSTEM											
11.17.1 J-4 Amplifier TR: Applicable system TO											
11.17.1.1 Theory of operation								-	-	-	-
11.17.1.2 Perform Operational Checks								-	-	-	-
11.17.1.3 Isolate/Repair malfunctions								-	-	-	-
11.17.2 J-4 Gyro TR: Applicable system TO											
11.17.2.1 Theory of operation								-	-	-	-
11.17.2.2 Perform Operational Checks								-	-	-	-
11.17.2.3 Isolate/Repair malfunctions								-	-	-	-
11.17.3 J-4 Compass Test Set TR: Applicable Technical Data											
11.17.3.1 Theory of operation								-	-	-	-
11.17.3.2 Inspect/Operate								-	-	-	-
11.17.4 N-1 Amplifier TR: Applicable system TO											
11.17.4.1 Theory of operation								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.17.4.2 Perform Operational Checks								-	-	-	-
11.17.4.3 Isolate/Repair malfunctions								-	-	-	-
11.17.5 N-1 Gyro TR: Applicable system TO											
11.17.5.1 Theory of operation								-	-	-	-
11.17.5.2 Perform Operational Checks								-	-	-	-
11.17.5.3 Isolate/Repair malfunctions								-	-	-	-
11.17.6 N-1 Slaving control TR: Applicable system TO											
11.17.6.1 Theory of operation								-	-	-	-
11.17.6.2 Perform Operational Checks								-	-	-	-
11.17.6.3 Isolate/Repair malfunctions								-	-	-	-
11.17.7 N-1 Master Indicator TR: Applicable system TO											
11.17.7.1 Theory of operation								-	-	-	-
11.17.7.2 Perform Operational Checks								-	-	-	-
11.17.7.3 Isolate/Repair malfunctions								-	-	-	-
11.17.8 N-1 Compass Test Set TR: Applicable Technical Data											
11.17.8.1 Theory of operation								-	-	-	-
11.17.8.2 Inspect/Operate								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.18 FLIGHT DIRECTOR/RGA SYSTEM											
11.18.1 Attitude Directional Indicator (ADI) TR: Applicable system TOs											
11.18.1.1 Theory of operation								-	-	-	-
11.18.1.2 Perform Operational Checks								-	-	-	-
11.18.1.3 Align/Adjust								-	-	-	-
11.18.2 ADI Test Set TR: Applicable system TOs											
11.18.2.1 Theory of operation								-	-	-	-
11.18.2.2 Inspect/Operate								-	-	-	-
11.18.3 Horizontal Situation Indicator (HSI) TR: Applicable system TOs											
11.18.3.1 Theory of operation								-	-	-	-
11.18.3.2 Perform Operational Checks								-	-	-	-
11.18.3.3 Align/Adjust								-	-	-	-
11.18.4 HSI Test Set TR: Applicable system TOs											
11.18.4.1 Theory of operation								-	-	-	-
11.18.4.2 Inspect/Operate								-	-	-	-
11.18.5 Pitch Computer TR: Applicable system TO											
11.18.5.1 Theory of operation								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.18.5.2 Perform Operational Checks								-	-	-	-
11.18.5.3 Isolate/Repair malfunctions								-	-	-	-
11.18.6 Roll Computer TR: Applicable system TO											
11.18.6.1 Theory of operation								-	-	-	-
11.18.6.2 Perform Operational Checks								-	-	-	-
11.18.6.3 Isolate/Repair malfunctions								-	-	-	-
11.18.7 Instrument Amplifier TR: Applicable system TO											
11.18.7.1 Theory of operation								-	-	-	-
11.18.7.2 Perform Operational Checks								-	-	-	-
11.18.7.3 Isolate/Repair malfunctions								-	-	-	-
11.18.8 MLAC TR: Applicable system TO											
11.18.8.1 Theory of operation								-	-	-	-
11.18.8.2 Perform Operational Checks								-	-	-	-
11.18.8.3 Isolate/Repair malfunctions								-	-	-	-
11.18.9 Comparator Warning Monitor (CWM) TR: Applicable system TO											
11.18.9.1 Theory of operation								-	-	-	-
11.18.9.2 Perform Operational Checks								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.18.9.3 Isolate/Repair malfunctions								-	-	-	-
11.18.10 CWM Display TR: Applicable system TO											
11.18.10.1 Theory of operation								-	-	-	-
11.18.10.2 Perform Operational Checks								-	-	-	-
11.18.10.3 Isolate/Repair malfunctions								-	-	-	-
11.18.11 Remote Slew Coupler TR: Applicable system TO											
11.18.11.1 Theory of operation								-	-	-	-
11.18.11.2 Perform Operational Checks								-	-	-	-
11.18.11.3 Isolate/Repair malfunctions								-	-	-	-
11.18.12 Flight Director Control Panel TR: Applicable system TO											
11.18.12.1 Theory of operation								-	-	-	-
11.18.12.2 Perform Operational Checks								-	-	-	-
11.18.12.3 Isolate/Repair malfunctions								-	-	-	-
11.18.13 Flight Director Test Set 980-L TR: Applicable Technical Data											
11.18.13.1 Theory of operation								-	-	-	-
11.18.13.2 Inspect/Operate								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.18.14 RGA Computer TR: Applicable system TO											
11.18.14.1 Theory of operation								-	-	-	-
11.18.14.2 Perform Operational Checks								-	-	-	-
11.18.14.3 Isolate/Repair malfunctions								-	-	-	-
11.18.15 RGA Interface TR: Applicable system TO											
11.18.15.1 Theory of operation								-	-	-	-
11.18.15.2 Perform Operational Checks								-	-	-	-
11.18.15.3 Isolate/Repair malfunctions								-	-	-	-
11.18.16 RGA Control Panel TR: Applicable system TO											
11.18.16.1 Theory of operation								-	-	-	-
11.18.16.2 Perform Operational Checks								-	-	-	-
11.18.16.3 Isolate/Repair malfunctions								-	-	-	-
11.18.17 AOA Indicator TR: Applicable system TO											
11.18.17.1 Theory of operation								-	-	-	-
11.18.17.2 Perform Operational Checks								-	-	-	-
11.18.18 Air Data Sensor TR: Applicable system TO											
11.18.18.1 Theory of operation								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.18.18.2 Perform Operational Checks								-	-	-	-
11.18.18.3 Isolate/Repair malfunctions								-	-	-	-
11.18.19 Diode Box TR: Applicable system TO											
11.18.19.1 Theory of operation								-	-	-	-
11.18.19.2 Perform Operational Checks								-	-	-	-
11.18.19.3 Isolate/Repair malfunctions								-	-	-	-
11.18.20 Annunciator Dimmer Control TR: Applicable system TO											
11.18.20.1 Theory of operation								-	-	-	-
11.18.20.2 Perform Operational Checks								-	-	-	-
11.18.20.3 Isolate/Repair malfunctions								-	-	-	-
11.19 AUTOMATIC FLIGHT CONTROL SYSTEMS											
11.19.1 Theory of operation								-	-	-	-
11.19.2 AFCS Processor TR: Applicable system TO											
11.19.2.1 Theory of operation								-	-	-	-
11.19.2.2 Perform Operational Checks								-	-	-	-
11.19.2.3 Isolate/Repair malfunctions								-	-	-	-
11.19.3 AFCS Control Panel TR: Applicable system TO											

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.19.3.1 Theory of operation								-	-	-	-
11.19.3.2 Perform Operational Checks								-	-	-	-
11.19.3.3 Isolate/Repair malfunctions								-	-	-	-
11.19.4 AFCS Flight Controller TR: Applicable system TO											
11.19.4.1 Theory of operation								-	-	-	-
11.19.4.2 Perform Operational Checks								-	-	-	-
11.19.4.3 Isolate/Repair malfunctions								-	-	-	-
11.19.5 AFCS Status Test Panel TR: Applicable system TO											
11.19.5.1 Theory of operation								-	-	-	-
11.19.5.2 Perform Operational Checks								-	-	-	-
11.19.5.3 Isolate/Repair malfunctions								-	-	-	-
11.19.6 AFCS Air Control Unit Sensor TR: Applicable system TO											
11.19.6.1 Theory of operation								-	-	-	-
11.19.6.2 Perform Operational Checks								-	-	-	-
11.19.7 AFCS Trim Actuator TR: Applicable system TO											
11.19.7.1 Theory of operation								-	-	-	-
11.19.7.2 Perform Operational Checks								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.19.8 AFCS Servo Motor TR: Applicable system TO											
11.19.8.1 Theory of operation								-	-	-	-
11.19.8.2 Perform Operational Checks								-	-	-	-
11.19.9 Digital Autopilot Test Stand TR: Applicable Technical Data											
11.19.9.1 Theory of operation								-	-	-	-
11.19.9.2 Inspect/Operate								-	-	-	-
11.19.9.3 Calibrate								-	-	-	-
11.20 POSITION INDICATING SYSTEM											
11.20.1 Flap Indicator TR: Applicable system TO											
11.20.1.1 Theory of operation								-	-	-	-
11.20.1.2 Perform Operational Checks								-	-	-	-
11.20.2 Flap Transmitter TR: Applicable system TO											
11.20.2.1 Theory of operation								-	-	-	-
11.20.2.2 Perform Operational Checks								-	-	-	-
11.20.2.3 Isolate/Repair malfunctions								-	-	-	-
11.21 ENGINE INDICATING SYSTEMS											
11.21.1 Engine Pressure Ratio (EPR) Indicator TR: Applicable system TO											

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
11.21.1.1 Theory of operation								-	-	-	-
11.21.1.2 Perform Operational Checks								-	-	-	-
11.21.2 EPR Transducer TR: Applicable system TO											
11.21.2.1 Theory of operation								-	-	-	-
11.21.2.2 Perform Operational Checks								-	-	-	-
11.21.3 Fuel Flow Indicator TR: Applicable system TO											
11.21.3.1 Theory of operation								-	-	-	-
11.21.3.2 Perform Operational Checks								-	-	-	-
11.21.4 Fuel Flow Power Supply TR: Applicable system TO											
11.21.4.1 Theory of operation								-	-	-	-
11.21.4.2 Perform Operational Checks								-	-	-	-
11.21.5 Tachometer/engine RPM Indicating System TR: Applicable system TO											
11.21.5.1 Theory of operation								-	-	-	-
11.21.5.2 Perform Operational Checks								-	-	-	-
11.21.6 Tachometer Test Set (TTU-27E) TR: Applicable Technical Data											
11.21.6.1 Theory of operation								-	-	-	-
11.21.6.2 Inspect/Operate								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
11.21.7 Fuel Flow Test Set (MO-1) TR: Applicable Technical Data											
11.21.7.1 Theory of operation								-	-	-	-
11.21.7.2 Inspect/Operate								-	-	-	-
11.22 PITOT STATIC FLIGHT INSTRUMENTS & AIR DATA SYSTEMS											
11.22.1 Aims Altimeter TR: Applicable system TO											
11.22.1.1 Theory of operation								-	-	-	-
11.22.1.2 Perform Operational Checks								-	-	-	-
11.22.2 Aims Computer TR: Applicable system TO											
11.22.2.1 Theory of operation								-	-	-	-
11.22.2.2 Perform Operational Checks								-	-	-	-
11.22.2.3 Isolate/Repair malfunctions								-	-	-	-
11.22.3 Altimeter (Barometric) TR: Applicable system TO											
11.22.3.1 Theory of operation								-	-	-	-
11.22.3.2 Perform Operational Checks								-	-	-	-
11.22.4 Machmeter TR: Applicable system TO											
11.22.4.1 Theory of operation								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.22.4.2 Perform Operational Checks								-	-	-	-
11.22.5 Vertical Velocity Indicator (VVI) TR: Applicable system TO											
11.22.5.1 Theory of operation								-	-	-	-
11.22.5.2 Perform Operational Checks								-	-	-	-
11.22.6 True Airspeed Indicator TR: Applicable system TO											
11.22.6.1 Theory of operation								-	-	-	-
11.22.6.2 Perform Operational Checks								-	-	-	-
11.22.7 Altimeter Test Set (TTU-229/A)											
11.22.7.1 Theory of operation								-	-	-	-
11.22.7.2 Inspect/Operate								-	-	-	-
11.22.8 TTU-205E/F Pressure Test Set											
11.22.8.1 Theory of operation								-	-	-	-
11.22.8.2 Inspect/Operate								-	-	-	-
11.23 INERTIAL NAVIGATION SYSTEM											
11.23.1 Inertial Navigation (INU) TR: Applicable system TO											
11.23.1.1 Theory of operation								-	-	-	-
11.23.1.2 Perform Operational Checks								-	-	-	-
11.23.1.3 Load and verify computer program								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
11.23.1.4 Isolate/repair malfunctions								-	-	-	-
11.23.2 Control Display Unit (CDU) TR: Applicable system TO											
11.23.2.1 Theory of operation								-	-	-	-
11.23.2.2 Perform Operational Checks								-	-	-	-
11.23.2.3 Isolate/Repair malfunctions								-	-	-	-
11.23.3 Inertial Junction Box (IJB) Navigation Junction Box (NJB) TR: Applicable system TO											
11.23.3.1 Theory of operation								-	-	-	-
11.23.3.2 Perform Operational Checks								-	-	-	-
11.23.3.3 Isolate/Repair malfunctions								-	-	-	-
11.23.4 Mode Select Unit (MSU) TR: Applicable system TO											
11.23.4.1 Theory of operation								-	-	-	-
11.23.4.2 Perform Operational Checks								-	-	-	-
11.23.4.3 Isolate/Repair malfunctions								-	-	-	-
11.23.5 Inertial Doppler Status Control Panel (IDS) TR: Applicable system TO											
11.23.5.1 Theory of operation								-	-	-	-
11.23.5.2 Perform Operational Checks								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.23.5.3 Isolate/Repair malfunctions								-	-	-	-
11.23.6 Inertial Navigation Program Load Unit (PLU)/Inertial Test Rack (ITR) TR: Applicable Technical Data											
11.23.6.1 Theory of operation								-	-	-	-
11.23.6.2 Inspect/Operate								-	-	-	-
11.23.6.3 Calibrate								-	-	-	-
11.23.7 Control Unit Test Set TR: Applicable Technical Data											
11.23.7.1 Theory of operation								-	-	-	-
11.23.7.2 Inspect/Operate								-	-	-	-
11.23.7.3 Calibrate								-	-	-	-
11.23.8 IJB/NJB Test Set TR: Applicable Technical Data											
11.23.8.1 Theory of operation								-	-	-	-
11.23.8.2 Inspect/Operate								-	-	-	-
11.24 PERIODIC SEXTANT SYSTEM											
11.24.1 Sextant TR: Applicable system TO											
11.24.1.1 Theory of operation								-	-	-	-
11.24.1.2 Perform Operational Checks								-	-	-	-
11.24.1.3 Isolate/Repair malfunctions								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Eng Start	Eng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.24.2 Sextant Mount/Shutter TR: Applicable system TO											
11.24.2.1 Theory of operation								-	-	-	-
11.24.2.2 Perform Operational Checks								-	-	-	-
11.24.2.3 Isolate/Repair malfunctions								-	-	-	-
11.24.3 Sextant Collimator TR: Applicable Technical Data											
11.24.3.1 Theory of operation								-	-	-	-
11.24.3.2 Inspect/Operate								-	-	-	-
11.24.3.3 Calibrate								-	-	-	-
11.25 FLIGHT CONTROL AUGMENTATION SYSTEM											
11.25.1 Engine Fail Assist Computer TR: Applicable system TO											
11.25.1.1 Theory of operation								-	-	-	-
11.25.1.2 Perform Operational Checks								-	-	-	-
11.25.1.3 Isolate/Repair malfunctions								-	-	-	-
11.26 SUPPORT TEST EQUIPMENT											
11.26.1 Rotation/Go-around Test Set TR: Applicable Technical Data											
11.26.1.1 Theory of operation								-	-	-	-
11.26.1.2 Inspect/Operate								-	-	-	-
11.26.1.3 Calibrate								-	-	-	-

C-135 and E-4 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
11.26.2 Scorsby Table TR: Applicable Technical Data											
11.26.2.1 Theory of operation								-	-	-	-
11.26.2.2 Inspect/Operate								-	-	-	-
11.26.3 Frequency Response Analyzer Test Stand (FCAS TTU-405) TR: Applicable Technical Data											
11.26.3.1 Theory of operation								-	-	-	-
11.26.3.2 Inspect/Operate								-	-	-	-
11.26.3.3 Calibrate								-	-	-	-

ELECTRONIC PRINCIPLES TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
ATTACHMENT 12											
NOTE 1: All course requirements are trained in the 3-level resident wartime course. The 7-level in -residence course is not taught in wartime.											
NOTE 2: Users are responsible for annotating training references to identify current references pending STS revision											
NOTE 3: Items marked in columns 2a or 2b with a “*R” are optional core tasks for ANG and AFRC.											
NOTE 4: Address comments and recommended changes through the MAJCOM Functional Managers to the AETC Training Manager, DSN 736-7899.											
12 ATTACHMENT 12, ELECTRONIC PRINCIPLES TRAINING REQUIREMENTS											
12.1 Electronics Support Subjects											
12.1.1 Safety TR: TO 31-1-141-1								B	-	-	-
12.1.2 First Aid TR: AFPAM 36-2241, Vol 1								A	-	-	-
12.1.3 Electrostatic Discharge (ESD) Control TR: TO 00-25-234								B	B	-	-
12.1.4 Electromagnetic Effects (EMP/EMI) TR: TO 31-1-141-12, -13								B	-	-	-
12.1.5 Metric Notation TR: TO 31-1-141-5											
12.1.5.1 Calculate Powers of Ten								2b	-	-	-
12.1.5.2 Electrical Prefixes								B	-	-	-
12.1.6 USE TEST EQUIPMENT											
12.1.6.1 Analog Multimeter								2b	-	-	-
12.1.6.2 Digital Multimeter								2b	-	-	-
12.1.6.3 Oscilloscope								2b	-	-	-
12.1.6.4 Signal Generator								2b	-	-	-
12.1.7 BASIC CIRCUITS TR: TO 31-1-141-2											
12.1.7.1 Direct Current (DC)											
12.1.7.1.1 Theory								B	-	-	-
12.1.7.1.2 Calculations								2b	-	-	-
12.1.7.2 Alternating Current (AC)											
12.1.7.2.1 Theory								B	-	-	-
12.1.7.2.2 Calculations								2b	-	-	-
12.1.8 BASIC CIRCUIT COMPONENTS											
12.1.8.1 Resistors TR: TOs 31-1-141-2, -15											
12.1.8.1.1 Theory								B	-	-	-
12.1.8.1.2 Color Code								B	-	-	-

ELECTRONIC PRINCIPLES TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
12.1.8.1.3 Troubleshoot								2b	-	-	-
12.1.8.2 Inductors TR: TOs 31-1-141-2, -8, -15											
12.1.8.2.1 Theory								B	-	-	-
12.1.8.2.2 Troubleshoot								2b	-	-	-
12.1.8.3 Capacitors TR: TOs 31-1-141-2, 31-1-141-5, 31-1-141-15											
12.1.8.3.1 Theory								B	-	-	-
12.1.8.3.2 Troubleshoot								2b	-	-	-
12.1.8.4 Resistive/Capacitive/ Inductive (RCL) Circuits Theory TR: TO 31-1-141-2											
12.1.8.4.1 Basic								A	-	-	-
12.1.8.4.2 Resonant								A	-	-	-
12.1.8.4.3 Frequency-Sensitive Filter								A	-	-	-
12.1.9 ELECTROMAGNETIC DEVICES											
12.1.9.1 Transformers TR: TOs 31-1-141-2, -3, -13, -15											
12.1.9.1.1 Theory								B	-	-	-
12.1.9.1.2 Troubleshoot								2b	-	-	-
12.1.9.2 Relays and Solenoids TR: TO 31-1-141-3											
12.1.9.2.1 Theory								B	B	-	-
12.1.9.2.2 Troubleshoot Relays								2b	-	-	-
12.1.9.3 Motor Theory TR: TO 31-1-141-9											
12.1.9.3.1 Direct Current (DC)								A	-	-	-
12.1.9.3.2 Alternating Current (AC)								A	-	-	-
12.1.9.4 Generator Theory TR: TO 31-1-141-9, -13											
12.1.9.4.1 Direct Current (DC)								A	-	-	-
12.1.9.4.2 Alternating Current (AC)								A	-	-	-
12.1.9.5 Synchro/Servo/Resolvers TR: TO 31-1-141--9											
12.1.9.5.1 Theory								A	B	-	-

ELECTRONIC PRINCIPLES TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
12.1.9.5.2 Theoretical Troubleshooting								B	-	-	-
12.1.9.6 Transducer Theory								B	-	-	-
12.1.10 SOLID STATE DEVICES											
12.1.10.1 Diodes TR: TO 31-1-141-4											
12.1.10.1.1 Theory								B	B	-	-
12.1.10.1.2 Troubleshoot								2b	-	-	-
12.1.10.2 Bipolar Junction Transistors TR: TO 31-1-141-4											
12.1.10.2.1 Theory								B	-	-	-
12.1.10.2.2 Troubleshoot								2b	-	-	-
12.1.10.3 Special Purpose Device Theory											
12.1.10.3.1 Zener Diode TR: TO 31-1-141-4								B	-	-	-
12.1.10.3.2 Light-Emitting Diode (LED)								A	-	-	-
12.1.10.3.3 Liquid-Crystal Display (LCD)								A	-	-	-
12.1.10.3.4 Integrated Circuits (IC)								A	B	-	-
12.1.10.3.5 Field Effect Transistor (FET)								-	-	-	-
12.1.10.3.6 Operational Amplifiers								A	B	-	-
12.1.11 TRANSISTOR AMPLIFIER CIRCUITS TR: TO 31-1-141-1, -4											
12.1.11.1 Theory								B	B	-	-
12.1.11.2 Stabilization								B	B	-	-
12.1.11.3 Coupling								B	B	-	-
12.1.12 POWER SUPPLY CIRCUITS TR: TO 31-1-141-3											
12.1.12.1 Theory											
12.1.12.1.1 Rectifiers								B	B	-	-
12.1.12.1.2 Filters								B	B	-	-
12.1.12.1.3 Voltage Regulators								B	B	-	-
12.1.12.2 Troubleshoot								2b	-	-	-
12.1.13 WAVE-GENERATING CIRCUITS TR: TO 31-1-141-3											

ELECTRONIC PRINCIPLES TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
12.1.13.1 Theory												
12.1.13.1.1 Oscillators								B	-	-	-	
12.1.13.1.2 Multivibrators								B	-	-	-	
12.1.13.1.3 Wave-Shaping Circuits								B	-	-	-	
12.1.14 DIGITAL NUMBERING SYSTEMS TR: TO 31-1-141-5												
12.1.14.1 Conversions												
12.1.14.1.1 Binary								B	B	-	-	
12.1.14.1.2 Octal								-	B	-	-	
12.1.14.1.3 Hexadecimal								B	B	-	-	
12.1.14.1.4 Binary-Coded Decimal								B	-	-	-	
12.1.14.2 Math Operations												
12.1.14.2.1 Binary								2b	B	-	-	
12.1.14.2.2 Octal								-	B	-	-	
12.1.14.2.3 Hexidecimal								-	B	-	-	
12.1.14.2.4 Binary Coded Systems								-	B	-	-	
12.1.15 DIGITAL LOGIC CIRCUITS TR: TO 31-1-141-3, -4, -9												
12.1.15.1 Theory								-	-	-	-	
12.1.15.1.1 Gates								B	B	-	-	
12.1.15.1.2 Flip-Flops								B	B	-	-	
12.1.15.1.3 Combinational Logic Circuits								-	B	-	-	
12.1.15.1.4 Theoretical Troubleshooting								-	-	-	-	
12.1.15.1.5 Counters								-	B	-	-	
12.1.15.1.6 Registers								-	B	-	-	
12.1.15.2 Digital-to-Analog (DA) and Analog-to-Digital (AD) Convertors Theory TR: TO 31-1-141-13								B	B			
12.1.15.3 Transistor to Transistor Logic (TTL)								-	B	-	-	
12.1.15.4 Complementary Metal Oxide Semi-Conductor (CMOS)								-	B	-	-	

ELECTRONIC PRINCIPLES TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
	A	B	A	B	C	D	E	A	B	C		
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC		
12.1.16 BASIC COMPUTER FUNDAMENTALS TR: TO 31-1-141-6, USAF CBT System (http://214.3.105.136/default.asp)												
12.1.16.1 Operation Principles								-	B	-	-	
12.1.16.2 Types of Memories								-	B	-	-	
12.1.16.3 Network Theory												
12.1.16.3.1 Components								-	-	-	-	
12.1.16.3.2 Types								-	-	-	-	
12.1.16.3.3 Topology								-	-	-	-	
12.1.16.3.4 Communications Mediums								-	-	-	-	
12.1.16.3.5 LAN Architecture								-	-	-	-	
12.1.17 BASIC COMMUNICATIONS THEORY												
12.1.17.1 Antenna TR: TO 31-1-141-12								-	B	-	-	
12.1.17.2 Transmission Lines TR: TO 31-1-141-11												
12.1.17.2.1 Data Bus								B	-	-	-	
12.1.17.3 Waveguides								-	B	-	-	
12.1.17.4 Transmitters												
12.1.17.4.1 Amplitude Modulation (AM)								B	B	-	-	
12.1.17.4.2 Frequency Modulation (FM)								-	B	-	-	
12.1.17.4.3 Single Side Band								-	B	-	-	
12.1.17.4.4 Pulse Modulation								-	B	-	-	
12.1.17.5 Receivers TR: TO 31-1-141-3, -9												
12.1.17.5.1 Amplitude Modulation (AM)												
12.1.17.5.1.1 AM Receiver signals								-	-	-	-	
12.1.17.5.1.2 Measure Radio Frequency (RF)								-	-	-	-	
12.1.17.5.1.3 Measure Intermediate Frequency (IF)								-	-	-	-	
12.1.17.5.1.4 Measure Audio Frequency (AF)								-	-	-	-	

ELECTRONIC PRINCIPLES TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
12.1.17.5.1.5 Measure Local Oscillator (LO) Output								-	-	-	-
12.1.17.5.2 Frequency Modulation (FM)								-	-	-	-
12.1.17.5.3 Single Side Band								-	B	-	-
12.1.17.5.4 Pulse Modulation								-	B	-	-
12.1.18 SOLDER AND DESOLDER TR: TO 00-25-234											
12.1.18.1 Terminal Connection								-	-	-	-
12.1.18.2 Printed Circuit Board (PCB)								-	-	-	-
12.1.18.3 Multipin Connector								-	-	-	-
12.1.18.4 Coaxial Connector								-	-	-	-
12.1.19 ASSEMBLE SOLDERLESS CONNECTORS TR: TO 1-1A-14											
12.1.19.1 Crimped Connection								-	-	-	-
12.1.19.2 Coaxial Connector								-	-	-	-
12.1.19.3 Multipin Connector								-	-	-	-
12.1.20 BOOLEAN EQUATIONS TR: TO 31-1-141-5											
12.1.20.1 Diagram to Equations								-	B	-	-
12.1.20.2 Equation to Diagram								-	B	-	-

2AX7X TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
ATTACHMENT 13											
NOTE 1: Columns 2 and 3 are deleted from this STS because items are SUBJECT KNOWLEDGE LEVEL only and require no certification.											
NOTE 2: Users are responsible for annotating training references to identify current references pending STS revision.											
NOTE 3: This attachment is to be used in conjunction with other attachments in applicable CFETPs.											
NOTE 4: Personnel must complete CDC requirements on all MDSs/attachments.											
NOTE 5: This attachment is to be used as a correlation document for 2AX7X 7-level Aerospace Maintenance Craftsman CDCs.											
13 ATTACHMENT 13, REQUIREMENTS FOR 2AX7X CDC											
13.1 REQUIREMENTS FOR 2AX7X CDC											
13.1.1 MANAGEMENT WITHIN THE MAINTENANCE COMPLEX TR: AFIs 21-101, 21-118											
13.1.1.1 Functions of the Maintenance Complex											
13.1.1.2 Maintenance Group Commander Responsibilities TR: AFI 38-101, AFPD 38-1											
13.1.1.3 Maintenance Debriefing and Landing Status Codes											
13.1.1.4 Maintenance Analysis											
13.1.1.5 Compliance and Standardizations Requirements Listings											
13.1.1.6 Maintenance Performance Indicators (MPI) Relationships											
13.1.1.7 Foreign Object Damage (FOD) Program Management											
13.1.1.8 Joint Oil Analysis Program TR: TO 33-1-37-1											
13.1.1.9 Mobility											
13.1.1.10 Hazard Declarations for Mobility Packages TR: AFI 91-301, AFMAN 24-204											
13.1.1.11 Hazardous Material Handling TR: AFIs 24-202, 91-301, AFMANs 23-110, 24-404											
13.1.1.12 Production Supervisor, Flight Chief, Section Chief, and Expediter Duties and Responsibilities TR: AFI 21-101											
13.1.1.13 Special Certification Rosters TR: AFI 21-101											
13.1.1.14 Maintenance Incident Investigation and Prevention TR: AFI 91-204											
13.1.1.15 Aircraft/Equipment Impoundment TR: AFI 21-101											
13.1.1.16 Operational Risk Management (ORM) TR: AFPD 90-9, AFI 90-901, AFPAM 90-902											
13.1.1.17 Restricted Maintenance Areas											
13.1.1.18 Proper Handling of Classified Assets TR: AFI 21-101, TO 00-20-1											
13.1.1.19 Maintenance Inspection Concepts TR: TO 00-20-1											

2AX7X TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
13.1.1.20 Tool and Equipment Management TR: AFI 21-101								-	-	-	A
13.1.2 ENLISTED SPECIALTY TRAINING TR: AFIs 36-2201 vol 1-6, 36-2232											
13.1.2.1 Training Management and Records								-	-	-	B
13.1.2.2 IMDS Automated Training Business Area								-	-	-	B
13.1.2.3 Career Field Education and Training Plan (CFETP)								-	-	-	A
13.1.2.4 Specialty Training Standard (STS)								-	-	-	A
13.1.2.5 Occupational Survey Report (OSR)								-	-	-	A
13.1.2.6 Utilization and Training Workshop (U&TW)								-	-	-	A
13.1.2.7 Training Forecast / Request								-	-	-	A
13.1.2.8 Training Waiver Process								-	-	-	A
13.1.2.9 Field Evaluation Questionnaire (FEQ) and Graduate Assessment Survey (GAS)								-	-	-	B
13.1.3 ACCOUNTABILITY FOR RECORDS, REPORTS, AND FORMS TR: AFI 21-109, TOs 00-35D-54 and 00-20 Series											
13.1.3.1 Historical Records								-	-	-	B
13.1.3.2 Minimum Essential System Listing (MESL) TR: AFI 21-103								-	-	-	A
13.1.4 AUTOMATED MAINTENANCE SYSTEMS											
13.1.4.1 Core Automated Maintenance System for Airlift (G081)								-	-	-	A
13.1.4.2 Integrated Maintenance Data System (IMDS) TR: AFM 66-279 Vol I-XXVII, TO 00-20-2								-	-	-	B
13.1.4.3 Maintenance Data Documentation (MDD) TR: TO 00-20-2								-	-	-	B
13.1.4.4 Enterprise Data Warehouse (EDW)								-	-	-	A
13.1.4.5 Reliability and Maintainability Information System (REMIS)								-	-	-	A
13.1.4.6 Enhanced Maintenance Operations Center (EMOC) Software								-	-	-	A
13.1.4.7 Air Force Technical Order (AFTO) Forms 781, 244, and 245 TR: TO 00-20-1								-	-	-	B
13.1.4.8 Configuration Management TR: AFI 21-101								-	-	-	A
13.1.4.9 Aircraft / Equipment Modifications TR: AFI 63-1101								-	-	-	B
13.1.4.10 Nuclear Surety TR: AFI 91-101								-	-	-	A
13.1.5 SUPPLY MANAGEMENT TR: DOD 7200-10, AFM 67-1, AFMANs 23-220, 23-110											
13.1.5.1 Maintenance Supply Concept TR: AFMAN 23-110								-	-	-	A
13.1.5.2 Supply Documents Management								-	-	-	B

2AX7X TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
13.1.5.3	Precious Metals Program TR: AFMAN 23-110							-	-	-	A
13.1.5.4	Quick Reference List (QRL)							-	-	-	A
13.1.5.5	Standard Base Supply System (SBSS) TR: AFMAN 23-110							-	-	-	B
13.1.5.6	Integrated Logistic System-Supply (ILS-S) and Global Combat Support System (GCSS) TR: AFMAN 23-110							-	-	-	A
13.1.5.7	Maintenance Repair/Supply Delivery Priorities TR: AFI 21-101							-	-	-	B
13.1.5.8	Repair Cycle Assets TR: AFI 21-101							-	-	-	B
13.1.5.9	Report of Survey and Statement of Charges TR: AFI 23-220							-	-	-	B
13.1.5.10	Equipment Account Management TR: AFMAN 23-110, AFI 21-101							-	-	-	B
13.1.5.11	Custodian Authorization/Custody Receipt Listing (CA/CRL) TR: AFI 21-101							-	-	-	A
13.1.5.12	Special Purpose Recoverable Authorized Maintenance (SPRAM) TR: AFMAN 23-110, AFIs 21-101, 21-103							-	-	-	A
13.1.5.13	Air Force Equipment Management System (AFEMS)							-	-	-	A
13.1.5.14	Bench, Shop, Operating Stocks, Work Order Residue, Special Levels, and Shelf-Life items TR: AFI 21-101							-	-	-	A
13.1.5.15	Hazardous Materials (HAZMAT) TR: AFI 90-821							-	-	-	B
13.1.5.16	Qualified Products Listing							-	-	-	A
13.1.5.17	Local Manufacture TR: AFI 21-101							-	-	-	A
13.1.6	LOGISTICS AND RESOURCE MANAGEMENT TR: AFD 21-1										
13.1.6.1	Air Force Government-Wide Purchase Card Program and Air Force Form 9 TR: AFI 64-117							-	-	-	A
13.1.6.2	Air Force Repair Enhancement Program (AFREP) TR: AFI 64-117							-	-	-	A
13.1.6.3	Air Force Material Command (AFMC) Responsibilities							-	-	-	A
13.1.6.4	Special Experience Identifier (SEI) TR: AFI 21-101, AFMAN 36-2108							-	-	-	A
13.1.6.5	Unit Manpower Document (UMD) and Unit Management Personnel Roster (UMPR)							-	-	-	A

2AX7X TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course (2) CDC	
13.1.6.6	Manning Standard, and Logistics Composite Model (LCOM) TR: AFI 38-201, AFMAN 38-208							-	-	-	A
13.1.6.7	Status of Resources and Training (SORTS)							-	-	-	A
13.1.7	TECHNICAL ORDER MANAGEMENT TR: AFI 21-101, 21-303, TO 00-5-1										
13.1.7.1	Technical Order Distribution Office (TODO), Technical Order Distribution Account (TODA), Technical Order Review Board (TORB) TR: AFI 21-101, TO 00-5-1							-	-	-	A
13.1.7.2	Air Force Technical Order Forms 22, 27, and 158							-	-	-	A
13.1.7.3	Automated Technical Order Management System (ATOMS) TR: TO 00-5-1							-	-	-	A
13.1.7.4	Time Compliance Technical Orders (TCTO) TR: TO 00-5-15							-	-	-	A
13.1.7.5	Joint Computer-Aided Acquisition and Logistic Support (JCALS)							-	-	-	A
13.1.7.6	Electronic Technical Orders							-	-	-	A
13.1.7.7	USAF Deficiency Reporting and Investigation System TR: TO 00-35D-54							-	-	-	B
13.1.7.8	Deficiency Report Entry and Mail Submitter (DREAMS)							-	-	-	A
13.1.7.9	Supply Discrepancy Report							-	-	-	B
13.1.7.10	Product Improvement Working Groups (PIWG), Technical Improvement Product Working Groups (TIPWG), System Training Plan (STP), and Program Management Review (PMR)							-	-	-	A
13.1.7.11	Corrosion Prevention Advisory Board (CPAB) TR: AFI 21-105							-	-	-	A
13.1.7.12	Aircraft Structural Integrity Program (ASIP) TR: AFI 21-101, 63-1001							-	-	-	A
13.1.7.13	Precision Measurement Equipment Laboratory (PMEL)							-	-	-	A
13.1.8	COMPUTER APPLICATION										
13.1.8.1	Air Force Electronic Publishing Library (AFEPL)							-	-	-	B
13.1.8.2	Air Force Portal							-	-	-	B
13.1.9	MAINTENANCE MANAGEMENT POLICY CENTRALIZED INTERMEDIATE REPAIR FACILITIES (CIRFs) TR: AFI 21-101										
13.1.9.1	Unit Type Codes (UTCs) to support Forward Operating Locations (FOLs) and Centralized Intermediate Repair Facility (CIRFs)							-	-	-	A
13.1.9.2	Readiness Spares Packages (RSPs) to support O-level maintenance at FOLs							-	-	-	A

2AX7X TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5 Level	7 Level	Ing Start	Ing Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	5 Skill Level (1) CDC	7 Skill Level (1) Course	(2) CDC
13.1.9.3	Readiness Spares Packages (RSPs) to support I-level maintenance at CIRFs							-	-	-	A
13.1.9.4	Air Force Portal; for status of aircraft, engines, pods, test stations, and LRUs/SRUs							-	-	-	A
13.1.10	SAFETY TR: AFI 21-101										
13.1.10.1	Hazard Abatement Program TR: AFI 91-301							-	-	-	A
13.1.10.2	Maintenance Safety Guidance TR: AFOSH STD 91-501							-	-	-	A
13.1.10.3	Evaluation Program TR: AFI 21-101							-	-	-	A
13.1.10.4	Quality Assurance Program (QAP) TR: AFI 21-101							-	-	-	A
13.1.10.5	Special Programs TR: AFI 21-101							-	-	-	A

2A071 STS COURSE MATRIX

STS 2A071

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided					
	A	B	A	B	C	D	E	A3 Skill Level		B 5 Skill Level		C 7 Skill Level	
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(1) Course	(2) CDC	(1) Course	(2) CDC	
1 2A0X1A CFETP/STS													
1.1 2A0X1A 2.13.5 Portable Automatic Test Equipment Calibrator (PATEC)													
1.1.1 2A0X1A 2.13.5.1 Principles								-	-	-	B	-	
1.1.2 2A0X1A 2.13.5.4 Operation								-	-	-	2b	-	
1.2 2A0X1A 2.14.3 RF Components													
1.2.1 2A0X1A 2.14.3.1 Principles								-	-	-	B	-	
1.2.2 2A0X1A 2.14.3.2 Isolate/Identify RF Malfunctions								-	-	-	2b	-	
1.3 2A0X1A 2.14.2 Digital Techniques TR: TO 31-1-141-5													
1.3.1 2A0X1A 2.14.2.1 Applications / Calculations								-	-	-	B	-	
1.3.2 2A0X1A 2.14.2.2 Components								-	-	-	B	-	
2 2A0X1B CFETP/STS													
2.1 2A0X1B 2.13.5 Portable Automatic Test Equipment Calibrator (PATEC)													
2.1.1 2A0X1B 2.13.5.1 Principles								-	-	-	B	-	
2.1.2 2A0X1B 2.13.5.3 Operation								-	-	-	2b	-	
2.2 2A0X1B 2.15.2 Digital Techniques TR: TO 31-1-141-5													
2.2.1 2A0X1B 2.15.2.1 Applications/Calculations								-	-	-	B	-	
2.2.2 2A0X1B 2.15.2.2 Components								-	-	-	B	-	
2.3 2A0X1B 2.16 RF Components													
2.3.1 2A0X1B 2.16.1 Principles								-	-	-	B	-	

2A071 STS COURSE MATRIX

STS 2A071

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided				
	A	B	A	B	C	D	E	A3 Skill Level	B 5 Skill Level		C 7 Skill Level	
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(1) Course	(2) CDC	(1) Course	(2) CDC
2.3.2 2A0X1B 2.16.3 Isolate/Identify RF Malfunctions								-	-	-	2b	-
3 2A0X1C CFETP/STS												
3.1 2A0X1C 2.9.3 Portable Automatic Test Equipment Calibrator (PATEC)												
3.1.1 2A0X1C 2.9.3.1 PATEC Principles								-	-	-	B	-
3.1.2 2A0X1C 2.9.3.2 Operation								-	-	-	2b	-
3.2 2A0X1C 2.12.8 RF Components												
3.2.1 2A0X1C 2.12.8.1 Principles								-	-	-	B	-
3.2.2 2A0X1C 2.12.8.2 Isolate/Identify RF Malfunctions								-	-	-	2b	-
3.3 2A0X1C 2.12.9 Digital Techniques TR: TO 31-1-141-5												
3.3.1 2A0X1C 2.12.9.1 Applications/Calculations								-	-	-	B	-
3.3.2 2A0X1C 2.12.9.2 Components								-	-	-	B	-
4 2A0X1D CFETP/STS												
4.1 2A0X1D 2.10.3 Portable Automatic Test Equipment Calibrator (PATEC)												
4.1.1 2A0X1D 2.10.3.1 PATEC Principles								-	-	-	B	-
4.1.2 2A0X1D 2.10.3.3 Operation								-	-	-	2b	-
4.2 2A0X1D 2.14.5 RF Components												
4.2.1 2A0X1D 2.14.5.1 Principles								-	-	-	B	-
4.2.2 2A0X1D 2.14.5.2 Isolate/Identify RF Malfunctions								-	-	-	2b	-

2A071 STS COURSE MATRIX

STS 2A071

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided					
	A	B	A	B	C	D	E	A3 Skill Level		B 5 Skill Level		C 7 Skill Level	
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(1) Course	(2) CDC	(1) Course	(2) CDC	
4.3 2A0X1D 2.14.6 Digital Techniques TR: TO 31-1-141-5													
4.3.1 2A0X1D 2.14.6.1 Applications / Calculations								-	-	-	B	-	
4.3.2 2A0X1D 2.14.6.2 Components								-	-	-	B	-	

SECTION B - COURSE OBJECTIVE LIST

4. Measurement: Each proficiency code STS task or knowledge item taught at the technical school is measured through the use of an objective. An objective is a written instruction for the student so he or she knows what is expected of him or her to successfully complete training on each task. Each objective is composed of a condition, behavior, and standard which state what is expected of the student for each task. The condition is the setting in which the training takes place (i.e. TOs, type of equipment, etc.). The behavior is the observable portion of the objective (i.e. perform an operational check). The standard is the level of performance that is measured to ensure the STS proficiency code level is attained. Each objective uses letter code(s) to identify how it is measured. All objectives use the PC code(s), which indicate a progress check is used to measure subject or task knowledge. "W" indicates a comprehensive written test and is used to measure the subject or task knowledge at the end of a block of instruction. "PC/W" indicates a subject or task knowledge progress check and a separate measurement of both knowledge and performance elements using a written test.

5. Standard: The minimum standard for written examinations is 70%. Standards for performance objectives are indicated in the objective and are also indicated on the individual progress check checklist. The checklist is used by the instructor to document each student's progress on each task. Instructor assistance is provided as needed during the progress check, and students may be required to repeat all or part of the behavior until satisfactory performance is attained. Students must satisfactorily complete all progress checks prior to taking the written test.

6. Proficiency Level: Review column 4A of the STS to determine the proficiency level of a particular task or knowledge item. Review the course objective list to determine which STS item the objective supports. Review the proficiency code key in Part II, Section A, of this CFETP for an explanation of the proficiency codes. Most task performances are taught to the "2b" proficiency level which means the students can do most parts of the task, but does need assistance on the hardest parts of the task (partially proficient). The student can also determine step by step procedures for doing the task. For tasks that are taught to the "3c" proficiency level, students can do all parts of the task and only require a spot check on completed work (competent). The student can also identify why and when a task must be done and why each step is needed.

7. Course Objectives: A detailed listing of initial skills objectives may be obtained by submitting a written request to the AETC Training Manager, 365 TRS/TRR, 609 Ninth Ave., Sheppard AFB TX 76311-2335.

SECTION C - OJT SUPPORT MATERIAL

8. The following list of support materials is not all inclusive; however, it covers the most frequently referenced areas. Support material is any training package designed to enhance the learning process at any level of training. Refer to the Air Force Education and Training Course Announcements (ETCA) for information on AETC formal courses. ETCA can be accessed from Keesler's homepage at <https://hq2af.keesler.af.mil>

Interactive Courseware (ICW) courses are available from, or are under development by 367 TRS/TRSS at Hill AFB, Utah. Their course catalog is available on the Internet at [http://www.hill.af.mil/367 TRS.findex.htm](http://www.hill.af.mil/367_TRS.findex.htm). Ordering information is found in the General Information area of the catalog.

For further information on the following courses, contact the OPR at:

81 TRSS
Qualification Training Flight
601 D Street
Keesler AFB, MS 39534-2229
DSN 597-3343

782 TRG
826 Avenue G Suite 4
Sheppard AFB TX 76311-2867
DSN 736-2578

362 TRS/TRR
613 10th Street
Sheppard AFB TX 76311-2352
DSN 736-1825

Course Number	Course Title	OPR
ECI Specialized Course 1200	Air Force Technical Orders	782 TRG
**J6ANU00066 044	General Technical Order System	362 TRS/TRR
**J6ANU00066 045	General Technical Order System	362 TRS/TRR
**J6ANU00066 047	IMDS for Backshop	362 TRS/TRR

**These courses are Computer Based Training (CBT), and listed at web site: <https://etca.randolph.af.mil>

SECTION D - TRAINING COURSE INDEX

9. Purpose: This section of the CFETP identifies training courses available for the specialty and shows how the courses are used by each MAJCOM in their career field training programs.

10. Air Force Field Training Detachment (FTD) Courses:

Refer to website: <https://etca.randolph.af.mil>

Click on the 982 Training Patch that shows, "Search Field Training".

In the field for Training Organization, type “Field Training” and click “GO”.

All FTD courses are listed.

Click on the red course number.

Course descriptions and locations are listed.

For further information on the FTD courses, contact the OPRs at:

372 TRS

912 I Ave, Suite 3

Sheppard AFB TX 76311-2361

DSN 736-4801

373 TRS

912 I Ave., Suite 3

Sheppard AFB TX 76311-2361

DSN 736-4750

11. Air Force Institute for Advanced Distributed Learning (AFIADL) Courses:

For further information on the following career development courses (CDC), contact the course manager at the address below (do control + left click) or refer to the AFIADL URL:

<http://www.maxwell.af.mil/au/afiadl/>.

365 TRS/TTAD

609 9th Avenue

Sheppard AFB TX 76311-2335

DSN 736-6489

COURSE NO.	COURSE TITLE	USER
CDC 2A051	Avionic Test Station and Aircraft Component Journeyman	AF
CDC 2A0511	Avionic Test Station and Aircraft Component Journeyman (F-16 Test Equipment)	AF
CDC 2A0512	Avionic Test Station and Aircraft Component Journeyman (B-1, B-2, C-17, and F-117 Test Equipment)	AF
CDC 2A0513	Avionic Test Station and Aircraft Component Journeyman (Conventional Avionics Systems)	AF
CDC 2AX7X	Aerospace Maintenance Craftsman	AF

12. Exportable Courses:

For further information on the following exportable courses, contact the OPRs at:

367 TRSS/TSIMD
6058 Aspen Avenue
Hill AFB UT 84056-5805
DSN 777-2555

362 TRS/TRR
613 10th Avenue
Sheppard AFB TX 76311-2352
DSN 736-5206

The 367 TRS course catalog can be viewed on-line at <https://367catalog.hill.af.mil/catalog> and the 362 TRS courses can be viewed on-line at <https://etca.randolph.af.mil>

13. Courses Under Development/Revision:

365 TRS/TRR
609 Ninth Street
Sheppard AFB TX 76311-2361
DSN 736-7899

Course Number	Course Title	OPR	USER
J3ABR2A031B048B	Avionic Test Station and Aircraft Component	365 TRS/TRR	AF

SECTION E – MAJCOM UNIQUE REQUIREMENTS

14. Currently, only Air Combat Command has a MAJCOM mandatory course list (MMCL). MAJCOMs change mandatory course requirements occasionally. Up-to-date ACC requirements can be obtained at URL <https://lg.acc.af.mil/lgq/lgqt/NEWLGQTHOME.htm>. Refer to the HQ ACC MMCL for additional information. As of the most recent ACC MMCL, dated 19 Mar 01, there are no mandatory course requirements for this AFSC.

15. Additional courses available from ACC:

Contact the course OPRs at:

HQ ACC LSG/OL-CA
6058 Aspen
Hill AFB, UT 84056-5895
DSN 777-4278

Course Number	Course Title	OPR	USER
AIA2A1X7-001	Ground Data Processing System Management Course	HQ AIA	AIA

Y140009	ACC Production Superintendent	HQ/ACC/ LSG	ACC
Y140015	ACC Maintenance Instructor	HQ/ACC/ LSG	ACC
Y140020	ACC Maintenance Training Management	HQ/ACC/ LSG	ACC